Internal Resistance Can Doom Offshore Projects

Disgruntled insiders may block outsourcing: care needed when choosing project leaders

BY PATRICK THIBODEAU

The most serious threat to companies' efforts to send work offshore isn't coming from angry protesters and politicians. It's coming from managers who are intent on torpedoing their companies' offshore projects, executives in charge of such proiects said last week Disgruntled managers

worried about shifts in responsibilities or the loss of their jobs or the jobs of coworkers, can easily thwart offshore projects, the executives sold

Opposition can t forms. Individuals may block meetings with vendors and consultants. raise numerous

in an effort to frustrate it, or even take more nefarious actions such as sabotaging code developed offshore. the executives explained. Rick Pfeiffer, former head of Asia-Pacific IT and oper-

ations at General Electric Co., one of the first U.S. companies to move work offshore, said that 60% of offshore

project failures can be attributed to one directly Offshoring page 10

Users Weigh Linux Risk

LinuxWorld attendees vary on the need for a shield from lawsuits

BY TODO R. WEISS

IT professionals appear to be split on whether new leval indemnification programs from major Linux vendors will fuel wider adoption of the opensource operating system At the LinuxWorld Conference & Expo here last week, a

sampling of users in businesses where IT is mission-critical, such as insurance and health care administration said the expanded indemnification programs make them more comfortable with Linux. But they said other factors remain to be addressed inside their companies before they can decide how to proceed. Other users said indemnification simply isn't an issue for them or is at best far down on their lists of criteria for Linux

adoption. The topic of indemnifying, or protecting, companies that use Linux from legal actions similar to the Invenit filed earlier this year by The SCO Group Inc. against IBM arose frequently during last week's

event. IBM in fact said that it Linux World, page 14

Retailers See RFID Ahead

Say it's only a matter of time before adoption

BY CAROL SLIWA Retail executives are now say ing "when," not "if" as they consider the use of radio frequency identification tass to track goods through their supply chains and ultimately in

their stores. That's a marked change from a year ago, when mans expressed guarded sentiments about REID's prospects and

Retail RFID, page 51

Barriers to RFID

Suppliers don't use it Control of ShorthC

SOLARIS FOLL OF STREETS PERSONS



SHELFWARE - software licenses sitting

unused - can accumulate for a variety of reasons. including poor asset management, canceled or scaled-back projects, corporate downsizing and had nurchasing decisions. We've identified four strategies for clearing the shelves, PAGE 35

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VOL. 38 ISS. 4 JAN 26

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Too complicated

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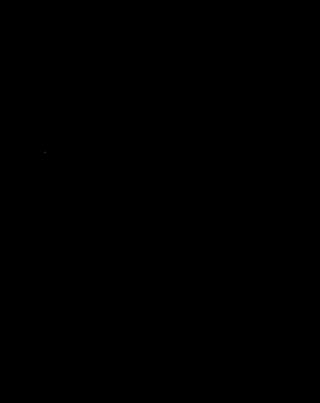
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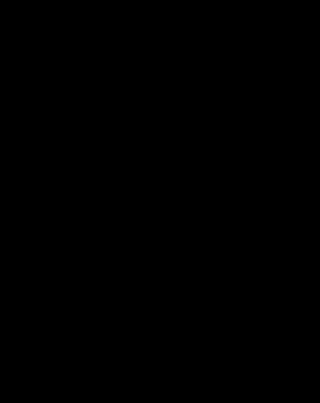
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A Railroad Finds Its Voice

In the Management section: Burlington Northern Santa Fe has started to use an interactive voice response system to translate radio calls from train crews into data, providing railroad managers and customers with near-real-time information. Page 37



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Blogs Bubble Into Business

In the Technology section: Weblogs began as a medium for personal communications but the technology is making its way into corporations as a tool for knowledge management and collaboration. Page 23

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- by The Yankee Group finds. 10 A bank group provides guide lines for evaluating the security risks of outsourcing.
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- 4D Q&A: SIM Focuses on Advocacy. Nancy Markle, new president of the Society for Information Management, lays out her agenda for this year.

OPINIONS

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- 18 Pimm Fox points to Source-Forge net as a good example of how outsourced projects can be managed
- 19 David Moschella thinks the dot-com bomb never exploded. In fact, some dot-coms have proved to be more innovative than traditional vendors in creating value for
- 34 Curt A. Monash says improved text-search technol. ogy offers multiple opportuni ties to improve your business.

IT shops

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Root Out a Password Menace SECURITY: Administrative passwords are

powerful, yet their management is often overlooked, says Nir Gertner, CTO of Cyber-Ark Software Inc. He offers a checklist for

setting up a password-control policy. O QuickLink 44149

Plan on Server Virtualization OPERATING SYSTEMS: Running multiple virtual operating systems on a single machine can help you cut costs, boost security and improve software development, according to

Avanade's Chris Burry and Craig Nelson. C QuickLink 44179 Comparing Wireless LAN Options

MOBILE/WIRELESS: Airespace's Bob O'Hara makes the case for intelligent WLANs, arguing that they offer a lot of capability at low cost. O QuickLink 44102

Is InfiniBand's Ice Age Ending? STORAGE: Recent appouncements sur that the suspended-animation phase for

this L/O technology might be over. O QuickLink 44216

Expanding RADIUS SECURITY: Paul Funk, president of Funk Soft-

ware, traces the evolution of the RADIUS server and its growing role in wireless technologies. O QuickLink 43672

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Former CA Finance **Exec Pleads Guilty**

A former Computer Asso ternational inc. finance executiv to resigned in October pleaded guilty to obstruction of justice in nection with a federal investion of CA's accounting practices. CA said Lloyd Silverstein who was its senior vice president vestigators when asked about alleged improper revenue recogni-tion. The Securities and Exchange nmission is considering civil ross sociast the company

AT&T Wireless Puts Itself Up for Sale

AT&T Wireless Services Inc. confirmed that its beard is conside ing a possible sale, but officials at and, Wash, based company declined to set a timetab for striking a deal, AT&T WI also reported an \$84 million fourth-quarter loss and said cur tomer turnever increased partly as a result of a problematic CRM upgrade [QuickLink 42831].

Microsoft Reports 19% Revenue Gain

Microsoft Corp. said revenue in its nd quarter rose 19% year over year to \$10.15 billion, with strong PC demand leading to dou ble digit growth in sales of Office ws XP. The company had a \$1.55 billion profit for the eter, which ended Dec. 31. Microsoft also eased the term nder which it licenses Wind

Savvis to Acquire **C&W Hosting Unit**

Cable & Wireless PLC's U.S. Web ng unit has accepted a buyout offer from Servis Commo cations Corp. in St. Louis, C&W last month agreed to sell its as-sets to Gores Technology Group LLC [QuickLink 43474], but oth rs had a chance to outbid es in U.S. Renkrantcy Court

ATDEADUNE Segway's Tech Plans Look Down the Road to Growth

Transporter maker builds IT strategy around Oracle, VoIP and outsourcing

NSTALLING an outsourced set of enterprise-class finance and manufacturing applications and deploying a voice-over-IP system aren't your typical small-company moves. But Segway LLC isn't a typical small company.

Segway made news in December 2001 when it introduced the Human Trans porter, a self-balancing, twowheeled transportation device that was the brainchild of founder Dean Kamen. The company's IT infrastructure includes VoIP technology that was put in place last summer and a fin rhat was up-

graded late last year to a new version of Oracle Corp.'s F.Bori

Suite Ili applications The finance system is hosted by Fremont Calif shared Appshop Inc., which manages the Oracle applications from a Sprint Corp. data center in Denver, Segway C1O Patrick Zilvitis said in an interview this month that when he joined the company in the fall of 2000, he quickly decided that outsourcing would be the

wisest path for a start-up that had a minimal IT infrastructure and wanted to hold down its technology costs. "I suggested that we should-

n't build a data center or a big. dedicated IT staff but instead Isbould1 use software under a hosted environment that we could grow with," said Zilvitis. who was CIO at The Gillette Co. before taking the Seguray job on a part-time basis.

Outsourcine "allows us to upsize or downsize our IT in frastructure as needed," noted Scott Frock. Segway's director of finance. "For a small-tomedium-size company, thereare a lot of advantages." Outsourcing also lets companies like Segway avoid up-

> in servers, software and technical support staffers, said Terry lost, a Dallas-based consultant at Can Gemini Frost & Young LLP. The Oracle applica-

tions were initially rolled out in early 2001. Before Zilvitis came on board, Segway had been using Intuit Inc.'s QuickBooks accounting software. He said that to support its expan-

tion, the company had to upgrade to nting package designed for small and midwize businesses or a larger system

When Patrick Zilvits took early

that it could grow into. Segway opted for the second choice to avoid the potential need for a "painful and exnensive" conversion later. Zilvitis said. After evaluating software from Oracle and SAP AG, the

company chose an uncustomized version of the Oracle suite that's seared to discrete manufacturers. The system includes manufacturing and order management modules in addition to the finance applications, and workers at Segway's headquarters here and its manufacturing plant in nearby Bedford, N.H., access the software via Windows

Poised for Expansion Segway began upgrading to

2000 PCs.

Oracle's 11.5.9 release over the Thanksgiving weekend and completed work on the core applications late last month. The company is also adding software that will let workers at its customer service merner, Frazer, Pa-based Deci sionOne, access product warranty data and other informa-

I suggested that we shouldn't build a data center or a big. dedicated IT staff.

PATRICK ZILVITIS DID SERWAY added within six months

To more effectively support network connections to Appshop and its own manufacturing plant, Segway replaced its private branch exchange switches with VoIP equipment for "considerably less than \$20,000." Zilvitis said

He added that the trahas provided several benefits. including the ability to set up low-cost switchboard extensions for remote employees. extra voice and data handwidth for future growth, and cheap yet reliable connections

to Sprint's data center. For instance, Segway's Internet connection to Denver costs the commany \$1,000 to \$2,000 per month, according to Zilvitis. By contrast, the monthly tab for a T-I connection would have been \$10,000 to \$12,000, he said. O 44266

tion via Web becomes Tibulate said that capability should be Company Makes Do With Part-time CIO - for Now

ement from Boston-based agreed, and Zilvitis said the nortte in 1999 after a decade as time gig has worked out well for both him and Segway. In addition to Zilvetic, the IT its CIO, he looked forward to skying, hiking and spending more time with his family. Then in staff currently includes three people on Oracle administra 2000, Zivits get a call from a

recruiter working on behalf of a and two people who manage LANs, WANs, voice networks it didn't take long for Zilvitis to and Segway's PCs and servers. Zilvitis said he frequently checks become enamored with the e-mail when he's not at work, start-up. However, he told Seg but the employees who report to agree to run the company's IT operations only if he could be a

though. The company is growing and is about to reach the eval of been liw is evalue to a full-time CIO, said Zilvins.

adding that he expects to find a replacement within the next six

its job was part of the under-standing between him and Seg-way from Day 1, Zilvitis noted. "I told them that if the compamy took off, I would replace my

Thad Hall, pro-

gram officer at The

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Four members of review panel claim hackers could easily influence elections

A federally funded Internet based voting system slated for use in this year's primary and general elections has unre solvable security vulnerabili-

ties that leave it open to widespread vote tampering and privacy breaches. That opinion was expressed last week by four members of a 10-persoo peer review group assigned to identify potential flaws in the Secure Electronic Registration and Voting Experiment (SERVE). Backers of SERVE counter that the security

concerns are being overblown The system is being developed as part of a government initiative to make it easier for U.S. armed forces personnel and overseas civilians to vote. But the four critical members of the peer review group said that the SERVE system has so many vulnerabilities that further development should be immediately abandoned.

Potential Weaknesses The problems lie in the inher-

ent insecurities associated with Internet and PC-based systems, said David Wanner. an associate professor at the University of California, Berkcley and one of the recurity experts assigned to review the prototype SERVE system.

The potential threats in clude viruses and worms, denial-of-service attacks and Web site spoofing. Wagner said. An attack using any of those methods on the main SERVE system or any of the PCs being used by voters could seriously compromi the results, Wagner said.

"SERVE is susceptible to largescale election fraud that could be launched from outside the reach of U.S. law and no completely undetected," he said. For instance, it would be relatively easy for malicious

backers to insert spoofed Web pages that appear to belong to the SERVE system but are actually designed to after votes or prevent them from being cast. A voter using a PC infected with a virus or worm could easily jenpardize the integrity of the system, Wagner noted. And the particularly dangerous part is that such hacks could be carried out without ever being detected. "I think that a dedicated and

experienced backer could sub-

vert the election rather easily."

that reviewed SERVE, "I don't think that Internet-based you ing such as SERVE can be made secure enough for use until we can develop comput er systems that are not vulner able to viruses and Trojan horses, and until we can de velop an Internet that is resistant to denial-of-service at-

tacks." The full report is available online (QuickLink a3970). Mee McLaughlin, president of eDemocracy Services at Accenture Ltd., the prime contractor for the project dismissed the concerns. "Every

this project." Me Laughlin said, adding that in each case said Avi Rubin, a professor at steens have been take Johns Hopkins University and en to manuraze the one of the security experts threat, including stringent user authentication and en Each online voter

in this report, we

will also be presented with a confirmation screen that will allow him to verify whether the ballot has been properly received by SERVE Information above

the vote is also kept separate from information about the voter, and at no time will anyone be able to link the two to gether, McLaughlin added.

have talked about in

vert the election rather easily.

SERVE tests were deliberately small in scope and weren't being viewed as an evaluation of a full-fledged voting system. O 44255

New Tools Shift Focus to Internal Network Security

Products designed to detect attacks

from within emerge

MATALLY RAMUNIAL YES Last year's Slammer and Blasser viruses, which spread via infected PCs, highlighted the need for IT managers to focus not only on perimeter defenses, but also on internal notwork vulnerabilities and compliance with security policies. Since those attacks, several vendors have introduced

products to belo IT workers deal with both issues. The latest is Check Point Software Technologies Ltd., which last week introduced a security appliance called InterSpect that's designed to detect and block attacks originating from inside a company's network. Redwood City, Calif.-based Check Point said InterSpeet inspects internal octwork traffic for virus signatures and other patterns that suggest an

attack is taking place. The technology lets users identify and quarantine infected systems to prevent any damage

from spreading, said Shankar Swamy, a Check Point product manager. It also allows IT admanistrators to segment net works into separate security zones to further contain an

attack Such capabilities are enucial for protecting networks against internal compromise, said InterSpect beta tester Greg Murray, vice president of information security at Information Resources Inc., a Chicago firm that does market research for food, consumer goods and Zone Labs Inc. also sell prodpharmaceutical companies ucts for enforcing securi Some companies that were policies on systems used by otherwise well protected got tempte morkes

hit by the Blaster virus when mobile progress second and ment Management uses softinfected notebook and laptop ware developed by Found-

PCs to corporate networks Murray said. Products like InterSpect can help users identify infected systems faster and cut them off from the rest of the network, he added. "It automates the identification and containment of inte nal threats," said Murray, who has been testing InterSpect for several months. Information

Resources, which stores more than DOTB of research data on its network, is using the Check Point technology to fundamental ROL" he said zones for each of its five testing and quality assurance labs.

Check Point's product joins a growing list of security tools with similar objectives. For example, Cisco Systems Inc. in November said it was teaming with Symantec Corp., Net-

Boston-based MFS Inves

Dennis Fishback that ran in the Premier 100 IT Leaders 2004 special section on Jan. 5 incor by received the total amount work Associates Inc. and of IT costs that Calpine has cut Trend Micro Inc. to develop technologies to belp compa from its budget since 2001. The rates block or safely quarantine duced costs by more than \$44 PCs, servers and other devices that don't comply with cornorate policies. Sygate Technologies Inc., InfoExpress Inc. and

in the Jan. 12 Management teats "The Forest vs. the Trees," Comoridishould have noted that Paul A Stressmenn's Information on such as profile, cost of tel and capital risk in addition In Intal costs of informe

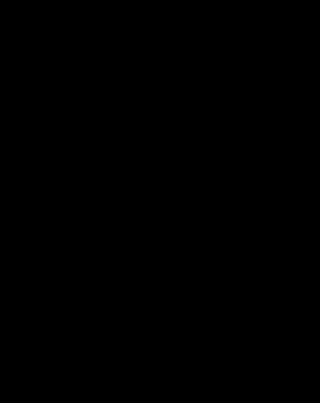
thing that was raised

agrees with the security assessment of the four mema dedicated hers who were crit and experienced ical of the system "The risks associ hacker could subated with an Inter-

> or less than a paper-based system he said. Hall added that the initial

stone Inc. to continually scan and inventory the systems on its networks. The software helps MFS detect systems that are vulnerable to new security threats, assess the level of risk that the threats pose and prioritize responses, said Tom Clark, MFS's vice president of corporate systems security The knowledge and ability to allocate the right resources to the right vulnerabilities at the right time has been the

Corrections A story about Calpine Corp. CIO



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Experts Split on Internet-based Absentee Voting System's Security

Four members of review panel claim hackers could easily influence elections

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BY JAIKUMAN YIJEYAN

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Zone Labs Inc. also sell prod ucts for enforcing security policies on vestoms used by nemote workers. Boston-based MFS Invest ment Management uses soft ware developed by found-

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to allocate the right resonance to the right vulnerabilities it

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Corrections

special section on Jan. 5 incom recity reported the total amount of IT costs that Calone has our from its budget since 2001. The San Jose-based company has reduced costs by more than \$41 to the Jan 12 Management feature

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- October 28, 2003



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File: Print Servers eg at \$399 NEW POWEREDGE 400SC SERVER POWEREOGE 650" RACK SERVER Small Deciment Value Server • Intal * Personn & Processor at 2 Nation Delt offers a wide range of reliable award-witning technology all delivered from a single point of contact - and our expert sales associates are there to . Upwadable to intel" Persun" 4 help you find the technology that singlet for your business with NORM's Page Sale Rus · STONE DIRECT FOR STONE ZNAME EXTRANCE SHOP BUT ZNAME EXTRANCE EXCE DORE SOURCE (Up to 458); Depression to 458 of SSAAM 40GB;7290 RFV0+IDE Nard Dree 4008 (7308 NPM IDE Hard Dream . Lityramete to 24002 of Internal Hard Since Storage . 1-Yi 28a7 Dedicated Server Phone Sect Support • Rest PRO Equitor No. 1 Yr Next Business Day On Site Service Once you we selected the right sectioology (Bell can help you get it up and running quickly and cost-effectively with our custom on site installance. \$649 and configuration services Database Web Hosting Servers After installation. Delt can help turn your employees or IT staff iron exports on your new technology through a vanety of training and certification POWEREOGE "2500 TOWER SERVER POWEREDGE 1750* RACK SERVER courses - helping increase your business. long term productivity . Intel® Xeon® Propessor at 2 400 kg . long" have" Preveney on 7 ADC av- Dual Hear" Xeon" Processes Capable Alp to 3 20GHz. S175/8 298MH- ECC DOT SDRAM 2a 1 KGB 1 1 St. RPM1 URINSOD SCSI Not Swap Hard Onnes. The support doesn't end at the sale. Del's award-werning service and • fAID 5 Included support offerings help ensure that your new network remains up and . Smart Business Pricing running - with Web phone or on site service and support · Snel Business Fromp. \$2349 \$2699 4-Way Servers Network Storage Options

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IBM Says It Will Add 15,000 Johs ICM which has made a series of

rust careffy some test Sentem-No use I prairy to add IS 000 " he that would increase its related by 50r. About 4 500 " Inches the will be based in the U.S. on IBM spokeswoman suit. The company also plans to seent \$200 million to train up to

100 000 workers in hat IT skills uch as Linux and Web services. Dell Warns About Defect in Server

Bell for warned that its Power Edge 1650 server can overheat emit smake and shut down because of a detective commonant Dell said if will replace the motherboards on all 1650s sold between last January and early May The 1650, a rack-mounted serves for use in data centers. was dropped in mid-2003 after Dell introduced a system called the 1750

Siebel Buys Maker Of Call Center Apps

Sector Systems Inc. has agreed to buy Instr Services Inc. a developer of hosted call center apolar Alicens for our to \$5 million on cash. This would be Serbel's secand acquisition of a hosted CRM software ventor in three months. the company bought UeShot Corp. in November Siebel also reported a \$41 S melson profit on revenue of \$366.7 million for last year's fourth quarter

Sun Nahs Content Switch Vendor

Sun Microsystems Inc. said it will acquire Nauticus Networks Inc. a vendor of content switch es designed for use with Webbased applications Financial terms weren't disclosed. Sun said it plays to integrate Nautius' technology with its line of blade servers. leaving succession the LRP more

Spam-Detection Tech Reaches Its Limits . . .

and a managers accord to shart their spanning laring strategies, claims has being the majority of compil we need to fight the problem the other way around," he suggests. In short, identify the good messages and let

the strongh and chuck everything else. That's part of the logic

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or you second-class Macintosh citizens will get a version later in the year 0 44233

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and IBM were each amounts the strength of its many, DIM is not an LRP vendor would be considered a health

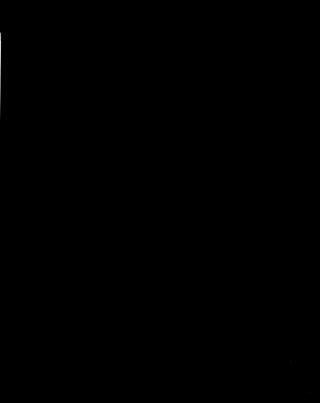
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ven by economics. 11, 2012

One recruitmed his own entique John Schindler e to it light me fixtures maker the said communities generally hory two much vested in their LRI systems to serup an installa-

White some IRP tentors s of Schooler whose compa the board add a schmiller a tormer Oracle user "It's als that are not justified," he said. of percentage mercose annual is which builds over time to on amounts that is just out of

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BRIEFS

IBM Says It Will Add 15,000 Jobs

IBM, which has made a series or small layoffs since last Sept ber, said it plans to add 15,000 jobs worldwide this year - a move that would increase its workforce by 5%. About 4.500 of the new jobs will be based in the U.S. on IBM spokeswo said. The company also plans to speed \$200 million to train up to 100,000 workers in het IT skills. such as Linux and Web services

Dell Warns About **Defect in Server**

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Sun Nabs Content Switch Vendor

Sun Microsystems Inc. said it will acquire Hauticus Hetworks Inc., a vendor of contant puri os designed for use with Web-based applications. Financial forms weren't displaced. Sun ns to Integrate House

MARK HALL . ON THE MARK

Spam-Detection Tech Reaches Its Limits ...

... so IT managers need to shift their spam-fighting strategies, claims Paul Judge, chief technology officer at Cipher Trust Inc. in Alpharetta. Ga. "With spam no longer being a small percentage of messages and now being the majority of e-mail, we need to fight the problem the other way around," he suggests. In short, identify the good messages and let them through, and chuck everything else. That's part of the logic

behind the company's IronMail 4.0 appliance, which is being released today. Ci pher Trust has boosted the power of its Enterprise Spam Profiler (ESP) tool in IronMail to more accurately distinguish good messages from had ones. Geoff Catron, director of networks/security for the Georgia Department of Technical and Adult Education, manuses the messaging on 34 campuses and a central office, each of which uses an IronMail 3.0

appliance. He's looking forward to 4.0 because of the improvements in ESP. Catron says the central office alone gets 12,000 messages a day, and \$2% are spars. Getting to that good 8% takes some diligeor tuning of the ESP, he says.

At the central office, where one of Catron's engineers regularly tunes the filtering parameters, that's not a big deal. But separating the wheat from the sparemy chaff is more problematic on the campuses. where staff have different skill levels and face differ-

ent day-to-day challenges. But with 4.0, CipherTrust will take over tuning the ESP to locate good mail and regularly download updates to user appliances with improved processing technique IronMail 4.0 also adds Ravesian and URI filtering. Pricing starts at \$27,000. . Phil Raymond agrees with Judge that traditional spam filters are imperfect. "We know the perfect filter is the pocketbook of the spammer," says the CEO of Van-

quish Inc. in Marlborn. Mass. Raymood anticipates that Vanouish will later this year unveil a new entispem system that's driven by economics. He says the planned service and software offering, while complex, will let levitimate bulk e-mailers offer users a financial incentive to reject unwanted messages. The legit crowd such as newsletter pub. lishers, will put up a bood for each mailing and bet that very few recipients will reject them. Howev-

er, if you do get an un-

button that's attached to each e-mail and. say, pocket a buck in a PayPal account, Under this scheme, a tally is kept of every time you reject an e-mail (and pocket the money) so that other mailers can determine your sensitivity to unsolicited messages and drop you from their lists. Raymond hopes that over time, legitimate bulk mailers will embrace a system like this so completely that any bulk e-mail from an unknown source will automatically be rejected by all mail systems. · When you're done fighting spam (yeah, right), you can return to securing your data, which is most at risk from internal maistents. That's the logic behind Omni Trust Security Systems Inc.'s Trusted Environment. It lets you set policies dierating who can see what documents when, based on where they are and what device they're using Michael Mansouri CFO of the Mountain View, Calif., compar which is changing its name from Probix Inc. tomorrow, says you can have policies for remote laptops and handhelds that are different from those for desktop PCs Are your users having trouble managing their passwords? According to Gree. Fournice, product line manager at American Power Conversion Corp. in West Kingston, R.I., the average employee has about 17 of them. And help desk experts say the No. I request from callers is for assistance with forgotteo passwords. Biometric devices can consolidate you passwords and add security to a PC. But they're pretty pricey. Or bave been, In early March, APC will release its Biomesric Manager for under \$50. It will remember all of your passwords (except for the

one to its master file of encrypted pass-

cations. Right now, it's Windows only, but you second-class Macintosh citizens will

get a version later in the war. O 44233

line." O 44275

words) and apply them to the right appli-

wanted message, you can reject it with a

www.computerworld.com

ERP Vendors 'Earning Little Loyalty' ketplace, and upselling to one's

Vendors of ERP software are apparently making little progress in differentiating their brands, according to a recent survey by The Yanker Group, Users who were asked to evaluate major ERP vendors such as Oracle Corp., SAP AG. IBM and PeopleSoft Inc. said

they find them to be more alike than different, said lon Derome, an analyst at the Boston-based research firm. That means repeat business is key to success in the FRP mar-

vendor survival, he said. The Yankee Group, which funded the research itself, surveved 350 executives in con panies that run software from various ERP vendors and found that respondents were

most likely to implement or recommend Oracle software. Oracle won plaudits from 32% of those surveyed. PeopleSoft was touted by 29% of the respondents, and SAP was backed by 26%, LD. Edwards &

Co., Microsoft Great Plains installed base will be crucial to and IBM were each cited by 14%. IBM was cited strictly on the strength of its name; IBM is not an ERP vendor Those oumbers are all well below the 50% level that

would be considered a healthy rating, said Derome One user offered his own

critique, John Schindler, CIO at lighting fixtures maker The L.D. Kichler Co. in Cleveland. said companies generally have too much vested in their FRP systems to scrap an installa-

tion even if they wanted to. While some ERP vendors might have an edge in a specific industry, their overall performance is about the same. said Schindler, whose company uses PropleSoft software And support is handled poorly by companies across the board, added Schindler, a former Oracle user, "It's a license to steal, and the dollar amounts are reaching levels that are not justified," he said. "All the majors use some sort of percentage increase annual. ly, which builds over time to an annuity that is just out of





Linux was Gound to be over 10 mens more expensive than Windows Server* 2023 in a recent study. The study, audiented by leading independent research analysis META Group, measured costs of Linux nothings on BMX 3500 maintenane for Windows companishe factions of lies serving and Web serving. The results showed that BMX 4500 maintinane running Linux is much less capable and vastly more expensive than Windows Server 2003 as a platform for server consolidation. To get the fill study and other third-purity findings visit encorosit congestitations.



Bank Group Offers Guidelines On Outsourcing Security Risks

Publishes 33-page spreadsheet to help gauge if vendors can protect IT systems

CONSORTIUM of the country's top financial services firms last week published a set of industry guidelines to use in evaluating the security risks of IT outsourcing deals. The Banking Industry Techology Secretariat (BITS) in Washington released the secu-

providers. The group's goal is to help financial services firms streamline the outsourcing evaluation percess and

hetter manage the risks of handing over control of key corporate systems to vendors. The guidelines are based on the International Standards Organization's ISO 17799 code of practice for information security management, which covers categories such as documenting comprate security

policies and classifying assets.

They also include best practices gathered from BITS members and input from vendors sovernment accordes and third-party IT auditors said Faith Boetteer, a senior consultant at RETS.

Boh Cedentren, second vice president of information security and business continuity planning at Fortis Inc., a financial services firm with U.S. onerations in New York, said security concerns related to outsourcing are getting more attention in corporate boardrooms, "Each time there's a virus outbreak, this gets discussion within our CIO group here at Fortis as well as with the CEOs" of individual busi-

ness units. Codergren said The BITS guidelines, which are built into a 33-page spreadsheet, provide a single set of rules for evaluating outsourcing and IT services vendors. Cedergren said. He noted that in the past, each of Fortis' operating units had its own yendor evaluation procedures.

and creates a common set of expectations for us," he said. Many of the financial services industry's certification standards, including Statement on Auditing Standards No. 70. SysTrust and Web-Trust, don't fully cover what

What to Ask

companies have been looking for in a best-practices matrix, according to Boettger, "Financial institutions were deploying their own internal resources or engaging third parties to perform due diligence and ongoing reviews to close that gap in the assessment requirement," she said. With the added security

guidelines. BITS's framework now includes questions to ask IT services vendors during each stage of the outsourcine process, including risk management, planning, testing and governance, Boettger said. The framework was originally published in 2001 and was updated by BITS last November.

One key area that wasn't covered in earlier guidelines was business continuity, which now falls under the um brella of information security at Fortis because of terrorist attacks around the world and last August's blackout io parts

of the northeastern U.S. and Canada, Cedenvren said He added that Fortis' IT department takes time to understand the security procedures of service providers and then writes into any outsourcing contracts provisions that allow audits and on-site reviews as needed. O 44249

for managing business relationships with IT services Retaining the Crown Jewels

rity guidelines as an adden-

dum to an existing framework

Some work can't be moved us, or even out of the company, because it's too soe cialized. That was the case at TWI Interactive Inc., the Bo based digital media arm of global sports and entertainment

Last year, TWI set out to inrease the efficiency of its IT opons and cut costs while reing ownership of its crown le: husiness knowledge ud sports

In April TWI signed a deal with nSonce Inc., an Ashburn. Vs.-based firm that specularis in eging only certain parts of a company's IT connetions so the nt can retain the processes it ves it can do better than are rvice provider.

John Watson, was president of business development and head of the (T division at TW) Inactive, said he expects about \$2 million in savings over three years as a result of reduced if in bor and systems spending. Sevace is doing the work in the so he could maintain a close relatoretrip with the service pro-vider. He said TWI eliminated 21 IT into that should half of those

workers moved to SevenSono Watson said TWI is reta al application and content development because the devel ers must have expertise in sports. "That's the thing we un

denstand and know how to do. Many companies, however do choose to outsource appli fon development to service providers with specialized busi-ness knowledge, including some that are offshore. David Tapper, an analyst at research firm IDC in Framinghern, Mass., said that

if prospective outsourcers claim to have specialized business expertise, a company considering its services should ask for ter references and spea to the outsourcer's users for

provides IT infrastructure services in the U.S., the company is exploring the use of offs roes. CEO Peter Weber said that he considers offshore ope onal management capab

> duct live tests of offshore - Patrick Theoret

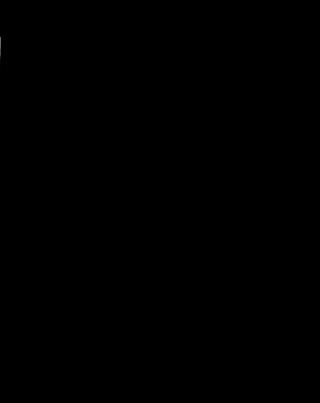


tied to it (who) has seen to it that it falls off the rails Internal opposition is "or of the top reasons why projects don't go through," echoed Cliff Justice, managing director at NeolT.com Inc., a San Ramon, Calif-based offshore

Advice for dealing with internal resistance, offered at a Strategic Research Institute LP conference here last week, includes ensuring strong support from upper management picking the right people to head the effort and getting managers involved early in the process

"Choose the busi manager who is point to be





Bank Group Offers Guidelines On Outsourcing Security Risks

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for managing business relationships with IT services uncertain corporate secur policies and classifying as Retaining the Crown Jewels

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In April TWI signed a deel with
SeverSpace Inc., on Ashburn,
Vs.-based firm that specializes in
managing only certain parts of a
company's IT operations so the
client can retain the processes it
believes it one on belief they are

other weather, was presented of behaviors development and head of the IT division at ITWI is increative, said the expects about 22 million in sevings over three years as a result of reduced IT is both and systems spending. See exception of the expect and systems spending, See exception of the expection of the condition of the expection of the e

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White SevenSpace currently provides in the U.S., the company vices in the U.S., the company exploring the use of offshore in sources, CEO Peter Weber said that a considers offshore can alternal immagninest capability to be immature but that in the next six months, has lime will conduct the tests of offshore

- Patrick Thibods

Offshoring

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Advice for dealing with internal resistance, offered at a Strategic Research Institute LP conference here last week, includes easuring strong support from upper management, picking the right people to head the effort and getting managers involved early in the

"Choose the business unit manager who is going to be Continued on page II



Parametric Tries to Simplify Its **Product Management Applications**

Windchill upgrade adds integrated collaboration, data control capabilities

Though software vendors tout the use of product life-cycle management tools as a way to

improve manufacturing efficiencies, many companies are continuing to drag their feet when it comes to adopting PLM products Some vendors have re-

sponded by trying to make their software easier to use and integrate with other corporate applications. Parametric Technology Corp.'s introduction last week of an upgrade of its Windchill Pf M aite is a case in pois

Waltham, Mass-hased PTC said the software was comctely redesigned as part of its Windchill 7.0 upgrade. New features include integrated end-user collaboration and data control capabilities, plus hooks for tying PLM data to applica-

Improved data visualization support for IZEE and Web services technologies, and PDF-

based document collaboration capabilities are also bein added, according to PTC. The upgrade is aimed at "reducing plexity and risk" for users of the software, said Jim Heppelmann, an executive vice president at the company.

Seeking Clarity

Ping Inc., a Phoenix-based maker of sporting equipment that uses PTC's software, is evaluating Windchill 7.0 for a possible upgrade later this year. Of particular interest is the integration of Windchill's PDMLink product data mas ment tool and ProjectLink

collaboration module, said Dan Shoenhair, an engineering director at Ping. Melding the two functions would make it easier and faster for Ping's engineers, designers, purchasing agents and othor employees to share product data, Shoenhair said, Current-

tions such as ERP and supply chain management and databases to manage prod-

uct data and support collabo ration among end users. The integration in Wind chill 70 "simplifies things and lends more clarity to what you're doing," Shoenhair said. End users should also be able to modify product data and

track changes made by other workers more easily than they can now he added PTC's Enterprise System

tegration module for tying PLM data to other applications is another key new feature in Windchill 7.0. said Gisela Wilson, an analyst at

Windchill 7.0

company can find a way to save money, they'll do it." Bauman and other pro ers said they're hoping that political lobbying and eco

nomic pressure, such as refus-ing to give their business to companies that outsource offshore, will become effective Potential Consequences The political and social rami-

fications of offshoring are in fact making some firms disinclined to move work out of the tendees said. Quantifying that is difficult, however.

Pfeiffer, who is now CEO of Ambertek Group, a Darien, Coan-based consulting com-pany, said offshoring is here to stry. Despite the political rhetoric . . . this is going to

er miller

Framingham, Mass.-based research firm IDC PTC worked with Tiben Software Inc. to develop connectors between Wind

chill and SAP's ERP applications. Wilson said the links will support a bidirectional flow of data between the applications, allowing for even wider collaboration on product development and other

activities. For instance, eng or product design changes could be more easily com: nicated to supply chain and procurement systems, Shoes hair said. But he noted that Ping has no immediate plans to use the SAP integration

PTC will build a similar bridge between Windchill and Oracle Corp.'s business applications and then do the same with PeopleSoft Inc.'s software, Heppelmann said. But he didn't disclose a develop-

ment schedule Improved integration is needed to boost the adoption of PLM software, said Bruce Hudson, an analyst at Meta Group Inc. "Integration is an

ugly secret of PLM," Hudson id. "It's the one area where PLM vendors do the least due diligence." O 44262

said, adding that man have to come to grips with changing responsibilities

"You have to think of your job as a global job." Offshore work doesn't always lead to reductions in a U.S. company's workforce. That has been the experience of LP. Morgan Chase, according

to Fielding. He said the come ny has recently seen a net increase in IT jobs, but in areas such as architecture design and development, which require higher levels of expert an the development work it sends offshore. "It's a definite

growth" in IT positio all, he said. © 44254

were and services," he said slable for comment

PERMITTED LI

IRM Entices Windows NT Users to Linux

IBM is readying a program to push its enterprise softy ning on Linux as an after native to Microsoft Corp. software running on the soon-tobe-discontinued Windows NT operating system.

The program, announced last week, offers free migration classes and some dis counts on software and ser vices for users moving to IBM hwere running on Linus.

Microsoft will discontinue support and security patches for Windows NT at the and o this year, requiring nearly 2 milfon customers to develop a

ration strategy, IBM said IBM's classes will be offered workdwide and will cover migration to the company's twore and softween for needs such as database management, collaboration, secu-

rity, systems and persons management, Web and application sarving, and tile and print serving.

IBM is also offering discounts on Latus Domino nun ning on Linux for any IBM eServer, including its zSenes mainframe, to customers mov-

tions like Microsoft Exchange Special programs are also being offered for migration

from Microsoft SQL Server to **062 Universal Database on** Linux and for security and network management migrations. IBM's timing is good, said James Governor, principal an

alyst at Bath, Maine-based RedMonk LLC, Tunes are definitely looking at Linux to reduce their total cost of ownerthip around Windows, and at the same time IBM is sawy to the fact that it can make en tra money on pieces of soft-

Microsoft officials weren't

Profit writes for the IDG

Continued from page 10 have a manager who won't sub-

otage the process," said Amrita Joshi, a vice president who has managed business process outurcing projects at IndyMac nk in Pasadena, Calif. 'If anyone ... wants to

to build consensus," said Paul Fielding, a vice pres eads outsourcing efforts at J.P. Morgan Chase & Co. in No one is saying that getting

nternal support is easy. Off-boring of white- and bluecollar jobs to low-wage coun-tries is an emotionally and po-litically charged topic. Oppo-nents, including laid-off IT

strictions on visus for foreign most enthusiastic, and basically

Outside the hotel where the inference was held, a group of about 30 protesters braved the cold to hold "Buy Ameri can" signs. Conference attendees were advised to remove their name tags when leaving the building, but the protesters blackball the project, it's going to be blackballed. So you have including John Bauman, a long-

time IT worker at a Connecti-cut utility who said he lost his job because of cutbacks unre lated to offshoring, were peaceful. Bauman, who has been out of work for 15 months, said he hasn't found work because many employers in the state are moving jobs overseas. "Offshoring will probably

never stop," said Bauman, who serves as president of The Or rs Inc. in

Health Care Firms Turn to Blades to Meet Privacy Rules

Centralized technology helps secure patient data, eases systems management

BY BOR BREWIN

WO NEALTH CARE ing on blade computing technology to help them comply with the rutient data privacy rules im-Insurance Portability and Accountability Act (HIPAA)

Beverly Enterprises Inc., a Fort Smith, Ark-based nursing home operator, last week said it's using Citrix Systems Inc.'s MetaFrame Access Suite software running on blade servers made by Hewlett-Packard Co. to provide its \$7,000 nurses. clinicsans and other employees with access to clinical and

potient billing applications. Beverly expects to save millions of dollars in IT costs by consolidating its application infrastructure on about 30 DOS-PROCESSOR HP Prol innt blade servers, which are in-

stalled at the company's data center in Fort Smith. The new architecture alcoprovides "a very locked-down environment" that's aimed at meeting HIPAA's privacy re-

quirements, said David Valcik vice president of technical services of Records Oklahoma Heart Hospital announced earlier this moreh that it's using blade systems as part of its HIPAA compliance

Song Networks Holding AB.

a Stockholm-based company

that provides voice, data and

Internet services to business

Metro switch, Based on several

days of tests, the switch "would

fit in very well with our MPLS

nior engineer Anders Thorzen

referring to Multiprotocol La-

Thorzen said Some is build-

ing metro Ethernet LANs and

wants to support Internet ser-

vices as well as virtual private

networks based on either IP

switch, which would be possi

But cost could be an issue.

or Ethernet within a single

ble with the 3750 Metro

bel Switching technology.

core network," said Song se-

customers in Scandinavian

countries, is testing a 3750

ed early last year, the Oklahoma City-based cardiac care facility installed about 120 PC blade devices made by Austinbased ClearCube Technology Inc., said leff lones, leader of the hospital's MIS team.

Safeguarding Data Jones said ClearCube's technology lets Oklahoma Heart

put "dumb" terminals in patient rooms and connect them to PC blades that are installed in a secure computer room The setup ensures that a PC containing medical records

and other personal data about patients "does not walk our the door" he noted In addition. ClearCube's C/Port terminals don't have fans that could spread air-

borne contaminants. That was another key factor in Okla homa Heart's decision to use the PC blades, according to lones. He declined to say how much the project cost the boxpital, which is also using the terminals in its operating

Rob Enderle, an analyst at

hance Cisco's competitiv

standing against rivals like

Nerworks Inc. and Extreme

Networks Inc., Perrin said.

liability features to the main-

Cisco's strategy to sell more

Having first emerged in

2001 metro Ethurnet technol

ogy has caught on mainly be-

cause it lets customers buy

according to Perrin.

said Thorzen, who said he did have to talk to the Cisco sales not know the price of the new rep about possibly getting a lower price." Thorzen said. metro Ethernet switching market "by far," said IDC ana lyst Sterling Perrin, although he declined to disclose market share data. But the 3750 Metro switches should further en-

nearly \$20,000 per switch. "I'll PRODUCT DETAILS Catalost 3750

VolP and other data services at a lower cost than leasing private lines, he said. IDC prodicts that morldwide rales Enderle Group in San lose. said the health care industry as a whole appears to be mov ing toward an IT architecture based on centralized servers and thin clients. The main goals are to ensure the security of regient records and sim plify systems management, Enderle said. Valcik wouldn't disclose

cost or return-on-investment figures for Beverly's Citrix and blade server installation. But he said the company would Cisco already dominates the home had to home many DCs and servers for its 400 or so elder care facilities if it hadn't invested in the blade technology The centralized system has also reduced the time required to run patient reports from six hours to 15 minutes, he noted. In addition, Beverly used Nortel Networks Ltd., Foundry the system to remotely provision Citrix's software during the installation process, said The new line adds more ro-Don Griffin, the bealth care bust quality-of-service and recommany's director of infesstructure research and develstream Catalyst 3750 switches opment. He added that softand is being offered as part of ware installations were done by "a flip of a switch? as Row products to service providers. ctly rolled out Citrix's technology to about four facilities and 150 to 200 end users per

week after launching a pilot project early last year At Oklahoma Heart, Clear Cube's terminals provide doctors with easy access to electronic medical records, pharmacy systems and other applications, Jones said. He added that the terminals can also be used to call up images such as X-rays. © 44265

Metro Ethernet Networks

Devices include quality-of-service support, redundant power supplies

BY MATT HAMBLES Cisco Systems Inc. last week announced a pair of switches that support Ethernet-based metropolitan-area networks and are aimed at network service providers looking to offer new capabilities to their business costomers The Catalyst 3750 Metro Series switches have more intelli-

gence than Cisco's existing devices and include the ability to provide quality-of-service guarantees to users, said Wesley Mukai, a product manager at the vendor. That means the switches can do things such as segment data traffic and give voice-over-IP transmissions fers, he added

The new products, which

Cisco Tailors Switches for switch until he started testing it. "The price is quite high, so I can't say if we'd buy them," he are specialized versions of said, noting that Song would Cisco's enterprise-class Cata need to purchase the basic box lyst 3750 switch line, also inas well as an advanced IP feeclude redundant power suptures license for a total cost of plies. Service providers can buy the switches and install them at their customers' facilities. Mukai said.

of metro Ethernet equipment will exceed \$2.4 billion this year, up from about \$1.4 billion in 2003 O 44226



Health Care Firms Turn to Blades to Meet Privacy Rules

patient data, eases systems management

WO HEALTH CARE companies are relying on blade computing technology to help them comply with the patient data privacy rules imposed by the federal Health Insurance Portability and Ac-

countability Act (HIPAA). Beverly Enterprises Inc., a Fort Smith, Ark, based nursing home operator, last week said it's using Citrix Systems Inc.'s MetaFrame Access Suite software running on blade servers made by Hewlett-Packard Co. to provide its 57,000 ourses. clinicians and other employees with access to clinical and

patient billing applications Beverly expects to save millions of dollars in IT same has consolidating its application infrastructure on about 30 two-processor HP ProLiant

blade servers, which are incepter in Fort Smith. environment" that's aimed at

meeting HIPAA's privacy requirements, said David Valcik. vice president of technical services at Beverly Oklahoma Heart Hospital announced earlier this month

strategy. In a project that start ed early last year, the Oklahoma City-based cardiac care facility installed about 120 PC blade devices made by Austinbased ClearCube Technology Inc., said Jeff Jones, leader of the bospital's MIS team.

Safeguarding Data lones said ClearCube's techcology lets Oklahoma Heart put "dumb" terminals in pa-

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share data. But the 3750 Metro nearly \$20,000 per switch. "Till switches should further enstanding against rivals like Nortel Networks Ltd., Foundry

Networks Inc. and Extreme Networks Inc., Perrin said. The new line adds more robust quality-of-service and reliability features to the mainstream Catalyst 3750 switches and is being offered as part of

Cisco's strategy to sell more products to service providers. according to Perrin Having first emerged in 2001 merry Ethernet technol-

ogy has caught on mainly hecause it lets customers buy VoIP and other data services at a lower cost than leasing private lines, he said, IDC predicts that worldwide sales of metro Ethernet equipment will exceed \$2.4 billion this year, up from about \$1.4 billion in 2003. O 44226

Enderle Group in San Jose, said the health care industry at a whole appears to be moving toward an IT architecture based on centralized servers and thin clients. The main goals are to ensure the securi ty of patient records and simplify systems management,

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structure research and devel-

macy systems and other appli-cations, lones said. He added that the terminals can also be used to call up images such as X-rays. O 44266

Centralized technology helps secure

stalled at the company's data The new architecture also provides "a very locked-down

that it's using blade systems as part of its HIPAA compliance

Cisco Tailors Switches for Metro Ethernet Networks Devices include

Cisco's enterprise-class Cataquality-of-service lyst 3750 switch line, also include redundant power supsupport, redundant plies. Service providers can power supplies buy the switches and install them at their customers' facili-

BY MATT HAMBLEN ties, Mukai said. Cisco Systems Inc. last week Song Networks Holding AB, announced a pair of switches a Stockholm-based company that support Ethernet-based that provides voice, data and metropolitan-area networks Internet services to business and are aimed at network sercustomers in Scandinavian vice providers looking to offer countries, is testing a 3750 new capabilities to their busi-Metro switch. Based on several days of tests, the switch "would The Catalyst 3750 Metro Sefit in very well with our MPLS

ries switches have more intellicore network," said Song sezence than Cisco's existing denior engineer Anders Thorzen vices and include the ability to referring to Multiprotocol Laprovide quality-of-service bel Switching technology. Thorzen said Song is buildstees to users, said Wesley Mukai, a product manager ing metro Ethernet LANs and at the vendor. That means the switches can do things such as

ints to support Internet services as well as virtual private networks based on either IP or Ethernet within a single switch, which would be possible with the 3750 Metro.

But cost could be an issue





segment data traffic and give volce-over-IP transmissions higher priority than data transfers, be added. The new products, which

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PeopleSoft Drons Third-Party Tools

PeopleSoft Inc. said It's switching from Informatica Corp. to Ascen tial Software Corp. as the supplier of the data extract, transform and had took bundled with its analy one. But the change to ficial a software will be trans ent to users, PeopleSoft added. It said existing oustomers can se to use the tools devel erating systems.

CA Reports Profit

my general manager asked when I was coming here." On Increased Sales Ebisch said. So far, Canoo is trying out Linux only for projal inc. reported a \$22 million ects such as experiments with profit for its third quarter, which network monitoring tools. But ded Dec. 31. Revenue rose 12% as major vendors, including er over year, and CEO Senjay Hewlett-Packard Co., Novell nor said he is "encourse Inc. and Oracle Corp., adopt s that technology spe Linux strategies, Canon's options continue to expand. "It makes it legitimate."



PalmOne Lavs Off 12% of Its Workers PalmOne Inc. announced a layoff of about 100 emp force by 12% and leav the Milpitas, Calif.-based mak of handheld devices with a total of 740 workers. Two engineerin ns that develop wireless and old products bore the brus of the job cuts after they were olidated into a single group relies to PalmOne.

Short Takes

SAP AG said revenue fell by 3% in last year's fourth quarter, as fore cast. But the company added that it expects software license sales to increase by about 10% this year....EMC CORP, reported a fourth-quarter profit of \$220 mil lion and said the U.S. DEPART-MENT OF DEFENSE plans to buy \$44.3 million worth of its storage

Continued from page 1 LinuxWorld

"That's the No. I question

Ebisch said. "I'm not taking

the risk I would have a year

Richard Tensdale a Univ

administrator at a 11 S shared

declined to name, said indem-

nification programs "make it more palatable" to consider

Linux. But he said that's just

one of many issues that must

break issue," Teasdale said.

one of them."

Conservative Pace

Colt Jackson, a systems eng

ings Mills, Md.-based health

dustry moves at a conserva-

tive pace. As a result, indem

"want to have a track record

for technologies they put in

place, but they don't want to

insurance company that he

ago" by moving to Linux.

won't offer any such program because it doesn't believe indemnification is needed (see

said indemnification is indeed Users were less certain. meanineful Rudy Ebisch, assistant sech-"It actually is something we nical support director for were really concerned about. core systems in the IT divi-We were in the process of sion of Canoo USA Inc. in putting together a position po-Lake Success, N.Y., said legal per on Linux when the [SCO] concerns are definitely a faclawsait hit, and we put it on tor as his company eyes Linux hold," he said, "But to have as a possible alternative in a companies step to the plate migration from multiple opand say they're having indem

nification programs meant they were acknowledging and dealing with the problem." **Unanswered Questions**

Questions remain, however. We're not coming away from this with any big reasons not to [move to Linux]," said the enterprise architect. But because it will likely take years

Defiant IBM Calls Linux

Open-source OS use continues to grow, despite legal

BY TODO R. WEISS "I don't think it's a make-on-"We're looking at it. We're untems, Hewlett-Packard and der tremendous pressure to Red Hat are all offering inreduce costs, so we're looking demnification programs to at every way . . . and Linux is ble legal threats stemming

neer at CareFirst Inc., an Ow-But on the opening day of the LinuxWorld Conference & insurance company, said FF planning in the insurance inlicly weighed in on the issu fication programs are beleful

> it last March by The SCO Group is baseless. "Our position base"

create that track record them-(Whether there's a legal selves," Jackson said. "They definitely want to limit risks." Another user, an enterprise liability problem] is architect at an East Coast fithe No. 1 question nancial services company who asked to remain anonymous. my general manager asked when I was coming here.

> RUDY FRISCH CANONING for the legal issues to be resolved, "it's important for the companies that believe in their (Linux) products to back them up with indemnification," he added. Alex Drought, head of technology for movie editing work-

ers at Blue Sky Studios Inc. in White Plains, N.Y., a unit of Fox Filmed Entertainment, said indemnification manne little in his business, since film studios can quickly turn to other oper ating systems like Apple Computer Inc.'s Mac OS X in the

been alleged [by SCO] against

IBM (have) no basis," so in-

demnification is not needed

concerns, both major Linux

distributions — SUSE Linux

and Red Hat Enterprise Linux

- include customer protec-

tion programs to help defend

users against legal action

from SCO, Stallings said. In

addition, the Open Source

Development Labs (OSDL).

a nonprofit enterprise Linux

advocacy group, has begun a defense fund that it hopes

will bring in \$10 million for

Use of the operating system

among businesses has contin-

ued to grow, despite SCO's re-

cent threats that it could soon

begin suing enterprise Linux users, Stallings said. "They

voted," he said of customers

who have deployed Linux.

"Given what's there, cus-

tomers have made up their

lecal Gabas

Even if customers still have

the SCO lawsuit That's different from the situstion at financial services and insurance companies. where a quick change isn't possible because of the depth of their IT integration and architectures. Drought said. They cannot turn on a dime if things change overnight," he said. "They would really be in a tough position."

event of legal problems such as

Red Hat Inc. last much said it will offer a plan that it calls the Open Source Assurance Program to protect all existing and future Red Hat Enterprise Linux customers from legal challenges as lone as they're using the software (Ouick) ink

Red Hat's move came on the heels of a decision a week earlier by Novell to indemnify SUSE Linux AG customers against possible legal action from SCO [QuickLink 44020]. O 44259

minds by the thousands" and don't feel threatened by SCO's

Matt Plociak, an analyst at Progressive Strategies Inc. in New York, said IBM's argument makes sense "To me, if you offer indem-

nification, you're saying there may be a problem," he said. "IBM is saying there is no problem and [that they're] going to prove that in court I think that's a reasonable strategy, and obviously their omers are confident with that" because they haven't stopped buying and using

Linux

Al Gillen, an analyst at Framingham, Mass-based IDC, said that while IBM contimues to pass on indemnification, the company has donated users entangled in any related money to the legal defense fund crested by the Beavert Ore,-based OSDL, "I don't think there's any real need to provide any indemnification until they have a customer who's in some form of litigation" in connection with SCO's claims, Gillen said Then the pressure would increase for them to do something." @ 44260

Indemnification Unnecessary IBM's general manager for Linux. "The claims that have

threats by SCO

While Novell, Sun Microsysprotect customers from possifrom their use of Linux, IBM has quietly remained on the

Expo here last week, IBM pubarguing that there's no need for it to indemnify its growing pool of Linux customers but won't likely trigger a mass IBM's rationale: The oncoing \$3 billion lawsuit filed against Health insurance companies

changed," said Jim Stallings,

legal challenge



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Stratus CEO Promises Legacy Upgrade

Stratus Technologies Internationol, a Moynard, Mass.based maker of fault-tolerant \$3.6 million loss and \$64.6 million in revenue for its third

was the first public cornings report in feve years by Stratus, which was split in two in 1999

David Laurello, Stratus' president and CEO, spoke with Computerworld prior to the release of the third-quorter numbers.

nancial results? Late last calendar year, we completed a \$170 million bond offering. Bonds are traded in a public market, and you follow a lot of the same financial disclosure rules as a public company.

What's the future of your Continuum servers? We continue to sell our legacy line. And the reason we do is

because a lot of our applications are very "sticky" to the platform. In the late 1980s and 1990s. we sold our

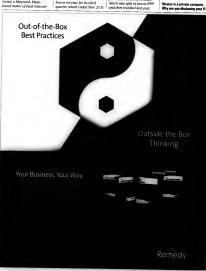
product to customers that ran their most mission-critical ap-

plications on our box. And once it's up and running, our customers tend not to want to change it. If you make an 800 call in the United States, it goes through a Stratus box.

Will your legacy users be facing an end-of-life scenario al some point? We continue to upgrade the Continuum platform. For our VOS customers, we're actually taking the operating system and migrating it on to the ftServer, our Windows-based server platform.

How important is the ftServer to Stratus? That's where all our new business is coming from. We started shipping it in June 2001, and since then we've sold it to over 850 new cus tomers. If you look at the fiveyear period before we introduced ftServer, we were lucky if we had 20 (new) customers.

Whal are you doing about Linux? In June, our plan is to release a Linux [offering] on ftServex. This will primarily be focused on the telco marketplace. In 1998, telco was 50% of our business. Now it's about 25% With this new Linux ftServer. we're really excited about driving some growth in the telco area. © 44223





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Unspeakable Candor

FTER SPEAKING ON A PANEL at a retail conference in New York recently, the CEO of Sears caught all kinds of hell for what amounts to unspeakable candor

about offshore outsourcing [QuickLink 44157]. Not only did Alan Lacy talk all too frankly about the financial attractions of going offshore, but he

also doubled his trouble by unfavorably comparing the intellect and drive of American workers with their overseas counter parts, "There are lour or five times as many smarr driven people in China than there are in the U.S.

What the chief executive rount to say, his PR trougbleshooters scrambled to explain in their apology at terward, was that countries with constitutions several turnor the size of the U.S naturally have much greater numbers of educated and motivated workers. And like so many other U.S. companies looking to reduce IT costs, Scars is looking to outsource part of its infrastructure this year and is considering all of its

What the Score Cl Omas have learned last week is that candid onen discussion about offshore oursourcing is the new corporate taboo. Nothing will be more politically mearrest this year than expressing interest in off-

The topic law become a but button on the national political state, where have taken up the cause of unemplea ed 11 workers displaced by oursourcing contracts. Legislation is bemg proposed in Indiana. Michigan and New Jersey to block state IT contracts

Last week. The Wall Street Income! published a story about an internal shift several thousand programming jobs overseas. The article included embarrassing details about a suggested HR script to be used when inform ing employees that they were out of a rols And an Associated Press story about an our sourcing conference in New York reported that a consultant from McKinsey & Co borned reporters from covering his talk, which was called "Is Offshore Outsourcine Unrutrietic?" Some Indian soft ware companies that once customers no longer do

so, for fear of adverse What is often overlooked in the emotional, angry reactions to offshore outsourcing is how small a percentage it really occupies in the huge global our sourcing market. Analyst firm Datamonitor just released fleures showing that offshore contract work

public discussion of offsharing the trend continues to accelerate (slots). ization is well under way - and large-Is an able-the LE in fact

The list of big name companies with established or planned offshore outsourcing projects includes DIM Hewlert-Packard, Oracle, Time Warn er, Disney, Stebel, Microsoft, Yahoo, MasterCard, Google, Accenture, UNN, Lancet, Bank of America and Intel More than eight out of 10 software companies will be exporting work off shore this year or next, according to a recent study by research firm Sand Hill Group

Successful offshore projects can save companies money, but the hidden costs and management pitfalls range from underestimating transition costs and additional travel expenses to se curity concerns, rising overseas labor costs and I'I governance problems What troubles me most about the political backlish and the growing self-censorship around this topic is the mentable stifling effect on honest information exchange. At a time when more companies are gaming experience - both good and bud - with offshore firms and outsourcing contracts. fewer companies are going to be willing to share those experiences.

Forus net Web site To me, that's far more unspeakable Run by Fremont Calif. based VA S. 6 ware Inc., the site AND MATER ONE OF THEM tives and partners. AN FIGURE A WAT OUT OF Richard Christopher, delivers man THIS PR NIGHTMARE ager at Allstream Corp. in Calgary, Alberta, uses this repository of open

> Christopher says Using Source Forgemet, Christopher's team manages code, content and process. The tool also handles docu ment management and version control From his clients' perspective it's ency to perform acceptance testing, log defects and bugs, and assign priorities tagged with notes. "The nice thing is a

Open-Source Model for Outsourcing

T DOESN'T TAKE an MBA to know that you can save money paying a salary of \$20,000 for IT skills in India vs. \$80,000 in Indianapolis. That's why the outsourcing movement non encompasses software creation. not just support and maintenance

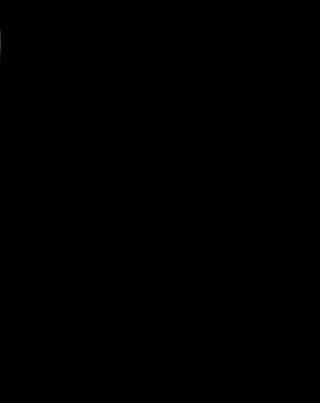
According to a Meta Group study 4Proofuli new application develop ment, whether involving Cobol. Net. Cit or Co., is happening offshore. And the Fortune 100 are increasingly dependent on distributed talent. But using offshore programmers requires so phisticated communication and collaboration technology. Without it, the cost of managing outsourced application development can easily strip away any savings you get from

Unfortunately such technology is still in its infancy. But there is one tool that suggests how offshore development can be man-

hosts thousands of projects for free serving as an open-source development platform for project teams as well as a real-time monitor for execu-

source code and applications as part of his effort to manage integration work for clients in the oil and gas industries "My role entails ensuring an IT project has the appropriate resources and is delivered on time and on budget."





MARYFRAN IOHNSON

Unspeakable Candor

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What the chief executive meant to say, his PR tronbleshouters scrambled to explain in their apology afterward, was that countries with populations several times the size of the U.S. naturally have moch greater numbers of educated and motivated workers. And like so many other U.S. companies looking to reduce IT costs, Scars is looking to outsource part of its infrastructure this year and is considering all of its

What the Sears CEO may have learned last week is that candid, open discussion about offshore outsourcing is the new corporate taboo. Nothing will be more politically incorrect this year than expressing interest in off-

shoring. The topic has become a hot button on the national political stage, where the Democratic presidential hopefuls have taken up the cause of unemployed IT workers displaced by outsourcing contracts. Legislation is being proposed in Indiana Michigan and New Jersey to block state IT contracts from using foreign labor.

Last week, The Wall Street Journal published a story about an internal IBM memo that described plans to shift several thousand programming jobs overseas. The article included embarrassing details about a suggested HR script to be used when informing employees that they were out of a

job. And an Associated Press story about an outsourcing conference in New York reported that a consultant from McKinsey & Co. barred reporters from covering bis talk which was called "Is Offshore Outsourcing Uopatriotic?" Some Indian software companies that once publicized their new U.S. customers no longer do

emotional, angry reactions to offshore outsourcing is how small a percentage it really occupies in the huge global outsourcing market. Analyst firm Datamonitor just released figures showing that offshore contract work made up only 1.4% of the \$119 billion spent on IT services deals in 2003

so, for fear of adverse publicity. What is often overlooked in the

public discussion of offshoring the trend continues to accelerate. Globalization is well under way - and largely enabled by IT, in fact.

The list of big-name companies with established or planned offshore outsourcing projects includes IRM Hewlett-Packard, Oracle, Time Warn er, Disney, Siebel, Microsoft, Yahoo MasterCard, Google, Accenture, CNN, Target, Bank of America and Intel. More than eight out of 10 software companies will be exporting work offshore this year or next, according to a recent study by research firm Sand Hill Group

Successful offshore projects can save companies money, but the hidden costs and management pitfalls range from underestimating transition costs and additional travel expenses to security concerns, rising overseas labor costs and IT governance problems. What troubles me most about the political backlash and the growing self-censorship around this topic is the inevitable stifling effect on honest information exchange. At a time when more companies are gaining experience - both good and bad - with offshore firms and outsourcing contracts. fewer companies are going to be willing to share those experiences. To me, that's far more unspeakable than the foot-in-mouth candor of the

Model for Outsourcing T DOESN'T TAKE an MBA to know that you can save

> \$20,000 for IT skills in India vs. \$80,000 in Indianapolis. That's why the outsourcing movement now encompasses software creation. not just support and maintenance. According to a Meta Group study. 41% of all new application development, whether involving Cobol, Net. CN or C++, is happenine offsbore. And the Fortune 100 are increasingly dependent on distributed talent. But using offshore programmers requires sophisticated communication and collaboration technology. Without it, the cost

of managing outsourced application

development can easily strip away any

savings you get from Unfortunately such technology is will in its infancy But there is one tool that suggests how offshore development can be man aced: the Source Force net Web site Run by Fermont. Calif-based VA Soft

were but the circ hosts thousands of projects for free, serving as an open-source development platform for project teams as well as a real-time monitor for executives and partners.

Richard Christopher, delivery manager at Allstream Corp. in Calgary, Alberta, uses this repository of open source code and applications as part of his effort to manage integration work for elients in the oil and gas industries. "My role entails ensuring an IT project has the appropriate resources and is delivered on time and on budget."

Christopher says. Using SourceForge.net, Christopher's team manages code, content and process. The tool also handles documeet management and versioo control From his clients' perspective, it's easy to perform acceptance testing, log defects and bugs, and assign priorities tagged with notes. "The nice thing is a



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3) Supplier

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It's a flat. Stleving on top of what technology you have and how it's being used can actually seek you make; Af Sothbook well help you do this through usehable instany regesting iconse teaking, and IT asset makegament services So when you're during a software registers, making your bedget or upgrading your herdware, you've got the information you need to make precisioness. Would you have taw offer year?

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eligible to enter it find one entry per colorier. Void where prointend United States and Caractan government agencies are recluded. Cembert closes March 16, 2004. Withrestol will be nonliked by phone or email.

The Sefecteins Brewser publicated covers to was feet from Softener Commission Information in singles to Indiago entitles enter ferms and ensurement of an and consecuted of an and consecuted of an and consecuted of an and consecuted of an analysis of a service and a s



VERITAS Backap Euro: 9 1 for income Servic Besting and Lupra Speni

Effective Backup for Mobile Users

Prototing critical data on users' machines is a challenge for any IT organization. New available with the new vestion of VERITAS Busing box of 3 for Well-Servers, is the introduction of the Deakton and Laptop Deline which deliness fertices, high-performance data pretention to destinger and laptops for continuous bookup protection whether in the effice or on the road. By automatically coping user data to existing release's takes, this

new option enables users to restore their own files and maintain synchronization between multiple destrops and laptops: The Deskipp and Laptop Diption easily integrates into existing IT infrastructure and policies, helping to lower the total cost of ownership. For more information on this new option, go to

www.softchoice.com/browser



* By 2006, 40% of all workers will perform a significant part of their job autside of the office.

*250,000 mobile devices are left in airports every year.

Protect and Charge ALL your Mobile Devices

The NEW APC TravelPower Case is designed to both protect and power your netebook computer, mobile phone AND handheid - all at the same time! The intergrated power system helps reduce weight and cond clutter since bulky transformer blocks and power adopters are no longer necessary visions were



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The 3Com Wireless LAN Access Point 8250 creates an enternoseclass wireless LAN supporting up to 253 simultaneous users. To protect communications and sensitive data. it offers an advanced and comprehensive set of authernication and encryption capabilities, along with built-in security, manageability and reliability features was on acres



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Deter would-be thieves with the affordable and universal DEFCON VPKL- Video Port Key Lock, Locks onto any notebook computer with a video port and does not require any special base plate. or screws. This is one of the toughest and strongest

security locking devices out in the market place.

Protect Your Valuable Data

IBM's Embedded Security Subsystem is a unique combination of hardware and software which creates the most secure industrystandard PC Protect data from unauthorized viewing with easy. automatic file and folder encryption, and use the integrated Password Manager to make remembering multiple passwords

easier. This all comes standard on select IBM notebooks and deaktoos (requires download) and can help you avoid the worry, frustration and cost of unsecured systems

Particular Mr. o Divo. Except on



Memory is Key

Use Kingston's Hi-Speed DataTraveler 2 0 USB memory key for fast, powerful and secure data transfers for critical information. And with their TravelerSafe software. your data is now password protected. Available in 128, 256, 512 and 1GB one will



symantec.

Symantec Client Security: All in One

Are you worrying about vulnerable remote laptops outside your perimeter? Are you concerned about the next time e client unknowingly downloads a virus and then logs back an? Put these fears to rest, once and for all.

The beauty of Symantec's new integrated client security solution is that it delivers protection for network and remote chents alike - all managed from e single console. Symentec* Client Security is the first integrated, easily aged protection for your client workstations, leptops and remote users. It offers industry leading security technologies -intrusion detection, client finewall and virus protection -in one integrated, manageable solution.

Learn more at www.softchoice.com/browser saw to-be steam

Inspect the Uninspected

Analyzing your environment's attributes and activity can help you build a clearer, more productive IT future. Having easy access to inventory data on the software and hardware running on your network, along with

detailed reports on bandwidth and application usage are keys to successful and cost-efficient IT decisions. These solutions can help you reduce IT expenditures, enhance security and performance, and make change

management a veritable walk in the park. **Control Your Machines**

LANDesk: Management Suite 8 enables IT professionals to automate systems management tasks and proactively control desktops, servers and mobile devices - all from a single console

Automatically discover technology assets Marate users to new operating systems Decrease software licensing costs Keep up with security undates Install software on the design Reduce the cost of helpdesk support



To learn more about Management Suite 8, visit www.softchoice.com/browser



Did You Know?

Complete View of IT Assets

configured reports.

Express Software Manager from Express Metrix provides a comprehensive view of FT assets and lets you understand what you own, and who is using it. Quickly inventory and control IT assets from a central location, and use the powerful reporting engine to see inventory data together with software usage statistics in over 65 pre-



Software Manager

Softchoice Delivers a Better Way to See IT

The Softchoice Evelowentory service gives you the ability to quickly and easily analyze all the software and hardware operating in your MS Windows or Linux environment. You'll get a comprehensive inventory of your organization's desktops. notebooks, servers, and PocketPCs, regardless of their location, and with little strain on your resources or infrastructure. Powerful analysis engines will translate your inventory results into more than 160 meaningful reports, accessible any time and in multiple formats. Combined with assistance from your dedicated Soft-house account representative. Livelinventory will field you save money and take control of your IT assets. We can belown:

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Network Instruments' Observer Suite is a monitoring, analysis and troubleshooting solution designed for local and remote networks Monitor bandwidth utilization with Real-Time Statistics, optimize network devices with a full SNMP menagement console, and track application session flows and failed transactions with Application

Analysis Get complete network visibility with Observer Suite





Did You Know? Preparation Pays

Enterprises that fail to integrate usage and inventory data to manage their software assets will

Drill Down on Usage

Survey", by Scalable Software. will gather inventory and usage metrics on hardware, software, thin clients and printers throughout a distributed network. Survey allows companies to understand the value being delivered

by their IT expenditures by understanding ACTUAL asset usage, not just when it is open or turned on JOSEM WAY





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it's good to get noticed. It's even better to stand out, from the crowd. Whether for print or the web, a little creative juice can help you deliver eye-opoping creations that will leave a lasting impression. With time saving solutions, integrated capabilities, and high powered printers for a cost-crossicous market, we'p, the tools you need to grab people's attention—without breaking the ball.

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Tips and Tricks: Save time

repetitive tasks such conversion to joense

conversion to increase preductivity Sevina orabidis titles as PDF's The Complete Design Environment is Here!

The Adobt *Creative Suite is an integrated design edivironment that combines full, new versions of Adobt's latest creative tools with innovative file-management features, a smooth PDF workflow, and comprehensive design resources. For a full listing, go to www.setflowic.com/browler graws.mare.



of a consistent user interface and seamless integration across applications to streamline your design and development workflow COMON BROKE



Deadlines Killing You?

The Zboard" customized keyboard for Adobe-Photoshop* has 139 labeled shortcut commands nght on the keys! Now you can work like a pro to quickly and easily access time sawing community No more memorizing! There is so much more to Zhoavd" - check out our other keyboards for Flash. Dreamweaver, 3ds max sum





Graphics Suite Powerhouse

CoreIDRAW* Graphics Suite 12 is here. With integrated applications for voctor drawing, page layout, digital imaging and motion graphics all in one box, this surte offers value that is second to none. With new smart design tools, it's now easier to produce more creative

and accurate objects - giving you a more powerful Windows graphics suite Discover advanced features that increase productivity, such as real-time visual feedback Keep your workflow smooth with industrystandard file compatibility. including SVG, AutoCAD*, HPGL Adobe 'Photoshop', Adobe' Illustrator', PDF, and new Microsoft* Office export





Printing for the Entire Creative Process

The HP Designet 120 Senes Printers provide small agencies, graphic designers, and production staffs an affordable solution that can dramatically Improve production workflows throughout the entire creative process. Whether designs call for postcant-size images, full color pages, or banner-style communication, this printer delivers professional quality images cressioner









High-Productivity Color

DKI* Color Series printers bring affordable Digital (FD) Color printing to a costconscious marketplace. The purchase price is highly competitive as well as the cost per page and total cost of ownership. DKI* Single Pass Color Digital LED Technology keeps these printers running strong - even with long printing jobs in both color and monochrome

Effective Patch Management

Recent security outherasks like Selbjs. Fand WR22 Blaster have changed the way people think about patch have changed the way people think about patch nanagement it's not supraing when you consider that he majority of cases. having a recent patch could have helped awold these disasters altogether. So why not take helped awold these disasters altogether. So why not take helped security patches to where they're needed, you'll never have to eity on infinishing autin.

Drill down into more information at: www.softchoice.com/browser



Patch Management Made Easy with Microsoft

Software Update Services

Software Update Services SUS enables administrators to quickly and reliably deploy the lastest critical updates security updates and Windows service packs (SPs) to Windows 2000 and Windows Storier 2003 based servers and desistops numing Windows 2000 Professional or Windows XP Professional SUS is a no-charge add-in component for Windows Server available for download direct from Minesola.





Systems Management Server

Systems Management Server 2003 (SMS) provides a comprehensive solution for change and configuration measurement for the Microsoft patient, measing organizations to provide relevant surhaves and explosers to user such an otice efficiency MSS 2000 delivers in creasing the policy of the provider solution and configuration of the provider solution and policy of the provider out of the provider of the provider out of the provider o

Microsoft

Proactive Patch Management

St. Bemand Software proofly presents Update-DEFELT, a enforce patch management to that toward your restorts for missing burdines, voletages managements to that toward your restorts for missing burdines, not remove a mataliantous, and then install as guides to all amone as worked as required client again. Update-DEFELT entertained authors removing wholes a required client again Update-DEFELT entertained database of patches that are throughly researched and stender for opplyment database of patches that are throughly researched and stender for opplyment and interdependences with other spaties by St. Bernard Software has been at the cutting edge of patch management series early 2000.

To learn more about UpdateEXPERT, go to www.softchoice.com/browser





Prevent Attacks Before They Occur

Symatic Despitify Alex Survives provides previouslate value-reality and malicious code alexts to bridge the goal before a reservices and exists. The survive divisors individually and survived as the provided inversion to high upon distribute parties are global estimated, by marking and actionable information to high upon distribute parties are global estimated by marking and product writtens and information to high upon distribute parties are global estimated by marking and product writtens and information from one to 150 authorization governors. They

potential threats access more than 18,000

settlement product registers and elementor from more than 150 automatives and elementor from more than 150 automatives outces. They provide a detailed party an each eleft and supported a detailed party and optertial import, technical makeap, the systems that might be affected, available makes or workstowns, and comprehensive indeption strangies for a first 30 day trial of the service, so to

A Holistic Approach to Preventing Blended Threats



Symates Chargine Security Solitions incorporate to least technicity in additioning identical directs such as Solity and distance. Through project operation are disposite operations on adjoint equalities and solition are infecting their estimate. With Symanos Despity, Alert Sovices, or where the prevent infection point is returned to the symanos of t

The Most Affordable Way to Confront Patches

Softchone's ATLAS (Advanced Tracking of Licenses And Software) technology enables organizations to electronizally distribute, display, and manage almost any type of software - including software patches! With ATLAS you'll reduce your software headsches and management const, and better serve your user commanny Most importantly. ATLAS is complementary tool-set!

offered exclusively by Softchoice to our customers - how's that for TCDI



Take Control with IRM

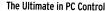
IBBI Theif Configuration Manager can holy you gain bold control over your enterprise software and total control over your enterprise software and you control over your extensive the property of the bolding to majority and effectively complex ensistent critical applications to mustipe controls ensistent extensive properties of the prop

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Better Patch Management with Wyse Alcatraz

As the summer 2003 worm attacks showed, not all virus problems can be solved by anti-virus software. Hackers are writing malicious code that can only be prevented by an operating system patch. Patch management is now as critical to an enterprise security plan as keeping virus-definition files up to date.





Wyse" Alcatraz" is a cost-effective way to plug holes in your security plan. This easy to use software manages PC's with any degree of centralized control and user freedom for maximum employee and IT productivity. With Alcatrar, PCs can be controlled along a sliding spectrum of settings. Users can have full functionality, or a PC can be turned instantly into a fixed-function device such as a loosk or Windows terminal. Between the two extremes, administrators can grant or restrict access to browsers, peripherals, storage devices, applications and Windows settings. Deventorms Now

Until now, keeping your PCs properly patched was a very time-consuming. expensive, and onerous task.



When a new worm or virus is screading, you're in a desperate race against the clock. Now, for a great per-seat price, Alcatrar brings you an easy way to identify holes - and increase your peace of mind

Solve these Patch Management Challenges

*Relying on users to do manual updates from emailed instructions ·Mixed OS environment with different patches needed. Some support automatic updates, others don't.

Not all users have automatic update turned on, and nothing prevents them from turning it off

·Viruses are spreading by pretending to be Microsoft petches . Your automatic update can't pick and choose the updates you want, Some updates break applications, others make systems unstable ·Mass automatic updates are a bandwidth rightmare.

For Example: Alcatraz easily finds all of the "Internet lorer 6.0 users' from a centrel console and then cen remotely instell Service Pack 1 to ell of them. To protect bandwidth, it sends en updete file to a remote location where

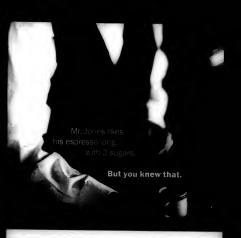
it can be locally served up to

Big Threat

Without effective patch menegement, your chances of getting hit with a virus or wor are considerably higher

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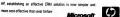


Keeping customers like Mr. Jones happy is all about knowing what they want, when they want it. Simple, right? The only trouble is that until recently, the technology needed to track customer requests, manage support issues and provide consistent efficient service has been the domain of large enterprises with plenty

of bandwidth and deep, deep pockets Not so anymore. Through the combined expertise of Microsoft and

more cost-effective than ever before

With HP's tested hardware configurations and familiar industristandard user interface providing a foundation, the new Microsoft CRM solution is an easy way for any sized organization to empower individuals, teams, and management to have more productive and successful relationships with customers, just like Mr Jones And if he's happy, you're happy



To learn more about leveraging the complete CRM solution from Microsoft and HP, call 1,800,268,7638 or visit www.softchoice.com/browser for details.

Microsoft & HP: A Winning Combination





Saving is Believing

One of the easiest ways to reduce overhead costs is to eliminate redundancy. That means consolidating resources, finding innovative ways to extend the use of existing technology and identifying new, multipurpose tools to help you free up elbow room, save money or both. When it comes to matching your IT resources with real business needs, it just doesn't get any better than this.

Serve More With Less

Simple is better. And doing more with less doesn't have to come at the expense of operational excellence. Through Microsoft Server consolidation, you have the opportunity to reduce the complexity of platforms and improve the overall manageability of your IT infrastructure. The benefit to you? Higher availability. increased flexibility and better alignment between IT resources and business goals. Since when did doing more with less look so coor?

The key to consolidating your current environment is to have a standard process for planning, designing, deploying, and managing the project For more information on how you can serve more

with less, visit www.softchoice.com/bro







id You Know?

Reduce Your Storage Costs

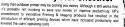


time to restore.





Is Your Printing Cost-effective?



In fact, analysts* agree that companies should scrutings the total cost of printing, which includes not just the primer's purchase price, but angoing costs of supplies, power and servicing. They cite evaluating new technologies, and putting the right number of devices in the right location as important strategies to boost productivity and realize significant savings

To lisarn more about what Softchoice & HP can to do help you lower your printer costs, visit www.softchoice.com/browser

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VMware GSX Server is an enterprise-class virtual machine software for business critical environments. In its third generation, VMware GSX Server is one of the most flexible and easily deployed somer virtualization products on the market

Enterprise customers rely on VMware GSX Server to deliver server scalability reliability, and high availability and to maximum return on IT investments. The product is used across the entermise to Implement server consolidation Deliver high availability - Provision servers rapidly

vmware - Streamline training and demo center operations

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Get Connected with Microsoft Communication and Collaboration solutions.

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In a perfect world, no matter where they are or what method they use, your best and brightest are collaborating freely using the most current information available. That means smarter decisions, improved timelines and greater productivity. Where Microsoft is concerned, that world is closer than you think. With a comprehensive set of communication and collaboration solutions, achieving the ultimate goal of increasing information worker productivity is now well within reach



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Nobile Workforce - Keep your people moving with mobile collaboration and communication solutions guaranteed to increase the experience of remote team activities through easier access and connectivity

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DB2* Performance Expert for Workgroups provides a comprehensive view that consolidates, reports. analyzes and recommends changes on D82 performance-related information. It can selectively employ and integrate the view from all trace outputs. snapshot event and DB2 VB Health Monitor overview And with its starter set of OnDomand capabilities, D62 Performance Expert also provides recommendations for system tuning to gain







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Capricorn

Aquarius

Jan. 20-Feb. 18

You'll wish you'd had your HP Photo smart 935sd digital

camera handy when

the Eagles rounte

one last time to

HP ScanJet 4670 See-

thru Vertical Scanner as

*

Apr. 20-May 20

Sure, it's got integrated WLAN 802 11b and Bluetooth, a 64k color transfertive display - and much more. But although "Fower in Your Pocket" might seem like a great way to describe the new HP IPaq MISO be selective in the manner and frequency of the term's usage

Virgo The heightened performance of HP's noc. Aug. 23-Sep. 22

The enormous vanety of genuine HP

Supplies, Accessories, and Services is truly staggering, but do little to explain why you,

yourself, are actually staggering. Frankly, the Stars are concerned Libra

Sep. 23-Oct. 23

Your attempts to relay messages telepathically

to your boss will finally prove fruitful, as you convey to him with your mind that the HP Compaq d330 Series of business desictops are a marriage of form and function, balancing value, performence and finishing

Scorpio Oct. 24-Nov. 21

You've been using the term "hamfisted" to describe the productivity gains and cost savings of the bandwidth maurization experienced since implementing HP's PreCurve Switches. However, you're heartbroken to find out that this term has next to nothing to do with firstus of delicious, golden ham, and is in fact a complete



Aries Mar. 21-Apr. 19



generation Tablet PC TC1100 will whip you rate a frenzy with its hot dooking and dual display modes but good luck explaining that to the SWAT soon, the judge, and for that matter, the national TV audience. Call your lawyer Ares Gemini

May 21-Jun 21 Uptime for your online Cable-lost Sweater Duties hits an all-time high after the implementation of

a more stable того оомоги: 🔛 Proliant ML 350 63 series server. The power of the Prohant combined with the warmth of

cable-knit wool It's a wn-wn situation Genini1

Cancer

June 22-July 22 Weighing in at a swite 38 pounds, shedding

light on all in its path, ability to travel wherever business goes - admit it, the more you think stout the HP Digital Projector mp3130, the more you burn with bitter jealously

Pisces Feb. 19-Mer. 20

Prefeet N.20e 62 Blade Server, with nts 32 GHz proreserv and 8 CB memory has you outclassed The stars predict a level us in value Tally hol

શ Jul. 23-Aug. 22 Your 10th-level Palader may be underlescable or spell casting, but when it comes to flowing point calculations

you'll grudgingly priret that the MP

The HP StorageWorks NAS 2000s gives your office better storage management and data protection, which explains your DO's anger when he notices you took it home with you. On the upside, you'll have more spare time to pursue important things, like finding a new source of income

perform a 15 minute concert in your beyoners

rec-room. The stars advise you stock up on

additional Smart Digital cards for the event.

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dean or quarantine any infected fries, McAfee VirusScan 70 protects servers and desktops, filtering viruses

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> Little fish affordability

user can see what happened vesterday and why," be says, "We're not waiting for the Monday morning status meeting or phone call."

The open-source nature of Source-Forge net also carries benefits. As open-source development prolif-crates, people will contribute to existing projects, producing additional functions and new security features Stan Carney, a consultant working with Allstream, tells me that as each project gets rolling, the open-source con nity comes and adds the changes it needs without having to invest in a ground-up development program. "It brings software development closer to traditional engineering," he says That's because 'code is no longer hidden in a black box that can't be in-

The more that open source code moves into the enterprise, the greater transparency - and accountability there will be in development. That places the emphasis even more squarely on people with project management skills, whose jobs will remain close to home. O 44348

DAVID MOSCHELLA

Revenge of Net Tax a Bad Idea The Dot-coms REGARDING JACK VINSON'S 43384] Brick-and-morter mer-TARTING a few years chants in most states collect and

ago, we were all sup-Oposed to laugh at the dot-coms. How could anyone ever have believed, let alone invested in, their pie-in-the-sky theories and imaginary business plans? Surely, after the collapse of the later. net bubble, we would all come back to our senses, and normal patterns of business leadership would resume

Of course, no one is laughing anymore. The reality is that in an expanding range of sectors, the dot-coms are getting the better of their pre-Web ri vals. Companies whose very survival was recently questioned have turned the tables and are now threatening the survival of others. It's been an impressive recovery

Consider just a few of the most nent examples. Amazon.com has crushed Barnes & Noble and has suc cessfully expanded into many forms of retail. Google and Yahoo/Overture Services dominate the online advertising business. Expedia maintains a healthy lead over the airline industry

igint venture Orbite Kazaa.com and Apple's Tunes have all but eliminated the offerings of the music industry giants. Pay-Pal and cBay control the Internet funds-transfer business. WebMD remains the

leading health care sine. Of course, there are other industries - such as news. banking and investing where established pre-Internet firms are also online leaders, as well as individual online successes from other

industries, such as Dell (computers) and Wal-Mart (retail). But when it comes to creating major new services and import on new forms of value, the start-up companies continue to have the edge While this is especially true in con sumer markets, the same pattern has

generally emerged even in business-tobusiness markets. Perhaps even more noteworthy, the strategic impact of the dot-coms is now starting to live up to some of the

James P Cov

Vorno III

time hype. Whereas many people once dismissed seller and Google as just the latest search-engine market leader, we can now see that they are positioning themselves as powerful e-commerce platforms and important providers of general-purpose technology services. Both America and

Google have made great progress toward becoming

broad-based Internetwide resources. that, like operating systems and databases before them, can be used to create new forms of value in an ever-expanding set of ways. They are even managing to give tangible meaning to the idea of Web services, something that Microsoft, IBM and other pure IT

players have struggled to do. Why haven't established pre-loternet market leaders responded more effectively? The answer should be clear to anyone familiar with IT industry

most visionary bubblehistory. Today's dot-com survivors are outperforming their established rivals for the same reasons that many venture-capital-backed IT start-ups have surpassed established IT suppliers. The younger companies tend to be faster, more focused and more merivated, resulting in more responsive organizations not bogged down by history In other words, established pre-Internet businesses are having the same problems dealing with newcomers than mainframe, minicomputer and work-

station vendors once did The bottom line is that there was always a lot more substance to the doccom boom than many of us now seem to remember. While the many financial excesses of the late 1990s certainly needed a major correction, the ideas that created the bubble have lived on.

A decade from now, much of the promise of the dot-com revolution will be fulfilled. O 44138

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grab updates, it sooms something thinnes and much less uninerable than Internet Explorer should be included

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for Internet Explorer. If you need to

WHEN MY 400B HARD DRIVE much, because it was just left over inal system when I made a 1200B drive my primary

Windows Server's Unnecessary Bloat So I took all the scrows out old and WHAT AN EXCELLENT article on the newest update of the control dury These were a nice shiny disk and the supersham Windows Server series ("Windows Server 2003 Region Shoulds." Quicklink (2985) Those aboves wondered why a server would include Outlook Express, Media Player and Remote Assistance I have installed an evolution

recipion owns one of my test Wodows 2000 Advanced servers and was pleased at the ease of doing that, but disappointed when I immediately needed to accily saveral Fyton Pa. critical patches, especially the one

read/write heads. I couldn't get the boits off to remove the platter, so I bend it out. Barri Crashi Tinkini The sucker was made of class, not metal, and shattered into about 100 oreces OK MSA to outboo that together after you find it in the landfill "Down of the Undeed Date," QuickLink 43381)

Chuck Peterka cipeterka@aol.com Not All Academic THE EXPENIENCE of the IT com

munity here in Jacksonville diverses from the lindings of Boston University researcher Non Jooleke l'Sidebor Respondent Saus Ottshare Moves Don't Lead to Bur U.S. Job Losses," QuickLink 436881 Ever since Bank of Among a Moorti Lynch and Prudential chose to send work to India, the local programmano market has severely trabs ened. This began in early 2001 and has continued. The only factor than sterns to down the offshorns is

jobs oversees. Profit is a must for pure greed and shortsightedness by CFOs is unacceptable Jeff Sch Senior developer lockesmille flo

Either Way, No Johs A CONDING TO THE ARTICLE shore" [QuckLink 43685], the Washington State Health Care Avthorsty awarded the contract for an IT project to Healtheast Inc., an invrvz. Texas, company that has been working with an India-based outsourcer. To be fair to both sides, I wonder how PropinSoft Oracin or

Delotte (all of which bid on the project) would have approached a is a certain they would have used local IT workers? Chances are they would use people overses. The trifcome would be the same on sobs for the local IT taken The prily way out of this up to state povernments that are connormal shout the effect of cooper playment to barr outsourcing to offshore companies. Similarly the Inderal government should impose sanctions in the form of additional

businesses, but profiting at all costs Srinivas B. Raju COMPUTERWORLD welcomes

rements from its readers. Letters. will be edited for brevity and clanty They should be addressed to Letters Computerworld PO Box 9171, 5000 Old Connecticut Path Frammoham Mass. 01701. Fax (505) 879-4843 F-mail letters/f-computerworld.com Include an address and phone number for immediate verification For more letters on these and other tences, on in



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Managing Data Centers Through XML

Tim Howes, CTO at data center automation vendor Opsware Inc., explains how the emerging Data Center Markup Language could benefit IT managers. Page 30



FUTURE WATCH

Printer Manic Printable parts to fix PCs, TVs and maybe even the family car - your next parts order could someday he delivered through an ink-jet printer. Page 31

SECURITY MANAGER'S JOURNAL Stepping Up to Sarbanes-Oxley

As his company accelerates its effo to comply with the Sarbanes-Oxley regulations, Mathias Thurman must read between the lines to ensure that the IT security group's responsibil-ities are covered. Page 32

ACOB CROSSMAN, a software engineer at Soar Technology Inc. in Ann Arbor, Mich., uses osking tools from Palo Alto, Calif-based Socialtext Inc. to keep an up-to-date engineering notebook on his ideas about a partic ular project that can be accessed by other

project participants.
"One of the disadvantages of a paper-based engineering notebook is that it's hard to find things unless you want to go through it manually," Crossman

says. "So I decided to use the blog feature of Socialtext's software to keep track of my ideas. I would type them in, and then they're immediately search able using another feature of the software." He is also able to link to other documents about the project us-

ing the blog entry. Crossman is not alone. Recently, weblogs, or blogs. which let anyone with a Web browser and some easy-to-use software publish a personalized diary online, have started to emerge as valuable knowledge

serment and communication tools in cor But blogs aren't entering through the CIO's office. They often first appear in companies as the conve nient records of engineering or design projects.

They're taking the same bottom-op adoption path followed by instant messaging, another collaboration tool originally used for personal communication. Weblog software, whether free, inexpensive or not

so cheap, aggregates and publishes unstructured content on the Web by time and topic. XML can be used to embed links in the blog from a variety of resources, but no knowledge of that language or HTMI is necessary

The details and features of the technology vary by vendor, but blogging software is basically a simple content management system that's designed to take content written by the blogger and post it at the ton

That content is either stored in a database or a flat file, depending on the software. Usually the present tation layer is separate from the content, so that the blogger can design the look and feel of the blog and simply fit the concent elements within whatever for-

mat the user wants to read. Many blogging systems provide templates to make that easier Using blogs, companies can easily and quickly ate information such as project updates. research, and product and industry news both inside

and outside the business. Security issues are the same as with any Internet-based application Even though blogging technology has the potential to become important to their companies, most CIOs.

haven't paid much attention to blogging, and it's not one of the tools they're considering to solve their myriad IT problems, according to John Patrick, presi dent of Artitude LLC in Ridgefield, Conn., and former vice president of Internet technology at IBM. "I believe it is important to the CIO and the enter-

prise, because blogging introduces a new way to create, share and leverage knowledge in the enterprise." Patrick says.

But Jamie Lewis, an analyst at Burton Group in Midvale, Utah, says he isn't sure all companies should immediately jump on the blogging bandwaron. "Whether companies should look into using it

depends on corporate culture and the kind of culture they're trying to develop," Lewis says. Blogging is like a lot of other collabo

















if the company is good about trying to encourage and penerate cross-functional and interpersonal collaboration and communication, then it's a good idea. Louissans

Internally, some corporations are using Web tools. like Six Apart Ltd.'s Monable Type to create project management blogs, says Anil Dush, vice president of business development at Six Apart, a weblog soft-

You can do things like start one weblog for each project and have it run its course," Dash says "As the project continues along, everybody can do status updates and be able to link to every other relevant resource, whether it's on the Web or in a Word document or in a proprietary company database. So for internal use, you have a lot of flexibility, and it respects the firewalls and the other boundaries you've

alreads put in place Michael Masnick, president of Techdirt Inc. in Fuster City, Calif., says that while most corporations have knowledge management tools and corporate portals to organize internal data, they don't have an effective way to deal with external information. A blog allows users to integrate internal and external

Enterprise blogs provide companies with easy-touse tools to manage external information, which is extremely critical because it affects relationships with customers, partners and investors, as well as in ternal decision makers.

"Having an enterprise blog provides a strategic ad-

vantage over the competition and helps companies gain market share and respond faster to their rapidly changing business environments," Masnick says

The U.S. Department of Defense's Naval Undersea Warfare Center (NUWC) in Newport, R.L. is using TeamPage enterprise blogging software from Provi-Jence, R I -based Traction Software Inc. to create a secure communications hub for a project to evaluate night-vision technology.

The blog is part of a pilot project to speed up comanscations within the DOD's test and evaluation programs NUWC will use it to ensure that information about its testing of the night-vision technology will be available in real time to its partners including Ford Motor Co. and the U.S. Army's night-vision lab. according to Tammi McVay, program analyst project lead at NUW?

"I Some of our partners] will test this night-vision technology under various circumstances and log their test results and any observations that they have on our weblog, and all our other partners will have immediate access to it," MeVay says, "We're working with all unclassified data for this go-round, but we'd need to look at this further to see how it would work in the world of classified information

After the four-month pilot is over, the DOD will analyze NUWC's results and determine whether blogging has a future in the areney, says McVay Traction President Greg Lloyd says enterprises can use weblogs in a number of ways.

We focus on groups within the compone where mmunication either within the company of with channel parties or customers, or both, is port of their main business activity," he says, "What the weblooprovides is a very simple way to collect, organize and disseminate information that works and acts like a Web newspaper."

Keeping Up to Date Weblogs give people a self-service way to find out

business weblows

what's happening within the company. Lloyd says. With our software, you can add comments or questions on any paragraph you see," he says, "So if someone in the sales organization sees something that a competitor has just announced, that salesnerson can add a note under the paragraph that talks about the new product announcement and make it visible to members in the sales team or only visible to the people in the competitive intelligence group,

who would then correlate it and send it throughout the organization." Many corporations aren't aware of the substantial business potential of enterprise blogs, says Torontobased author fim Carroll, who has written about

"If I'm a customer and I'm dealing with a product that has some type of well-known problem, to be able to access a blog and track that blog and to be able to track historic postings on that blog - I think that would be useful," Carroll says. "The example I use is Harley-Davidson building a blog for its customers to keep up to date on all the cool stuff that's happening with Harley, because people are religious about their Harleys. But I don't think the marketing world has figured it out yet."

One of the reasons the upper management at most corporations hasn't really warmed up to the enter-

Why a Business Blog?

Here are some of the ways weblogs can benefit a company

They're crack and easy. Blogs aggregate information. and make it relevant to their authences in an easy-to read format. Enterprise users can scan a customized blog and leel confide of that they have a good sense of what's happening on their project, in their company

They provide a central repository. Blogs put inform bon in a central location, making it accessible to large

able and sortable format for future reference. This omes useful when a user needs to look up some information from a previous month or wants to aggregate all information evadable about a particular con réate a knowledge community. Blags let groups share, discuss, annotate and amend content. This in

teractive component highlights the value of the infor on and allows users to quickly and efficiently identify action items. prise blog as a marketing tool is the end of the '90's

high-tech boom, Carroll says "I think people got excited about the Net. They got

excited about it as a marketing tool and a customersupport tool - as a tool by which they could innovate their business processes. And then everything went wrong, and everyone out there is too darned terrified to try anything new right now," he says.

But at lower levels of business, the convenience and usefulness of blogs is more powerful for users than techno-skittishness. "The trend that's happening now is that users are

seeing the need for blogging like they have with other disruptive technologies, and they're bringing them into the enterprise at the workgroup or departmental level," says Ross Mayfield, CEO of Socialtext.

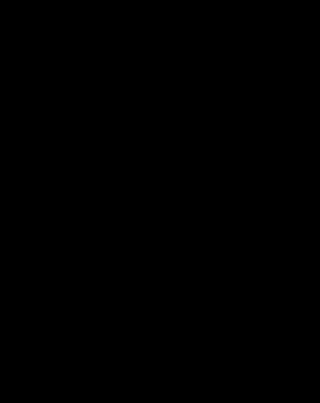
Mayfield says the adoption scenario begins when a single worker sets up a work space for his workgroup. The group then goes on to build a business case for how blogging is adding value just on that small scale "Then that person creates a work space with

mebody who's in a different workgroup, and grad ually what ends up happening is you gain this critical mass of building business case after business case within an organization," he says. "And by the time the CIO is really looking at the technology to make a top-down buying decision for the enterprise, they al ready have an existing class of business cases and proven techniques of how users are adopting it."

Mayfield says because these blogging tools are inexpensive - approximately \$30 per user per month - easy to use and accessible, there's the potential for growth within the enterprise similar to the growth of instant messaging "I would expect it to be the same way, where users

are just going to have it first, and then managers are going to realize increasingly the value of it as a management tool," Mayfield says. O 43761

A Collaborative Difference



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Disposable IT DRIVES CAMPAIGNS

The 2004 primary campaigns demand fast and easy IT systems that deliver results like there's no tomorrow

BY MARK HALL

striking aspects of this year's preciden tial primary race is the sudden importance given to candidates' IT operations. Everything from claborate Web sites and acgressive online fundraising to e-mail compaigns and blogs have been embraced by virtually all of the candidates run-

And yet while IT professionals might assume that setting a campaign's IT operations up and running is a complex and time-consumi affair, what's most striking about these IT infrastructure is bow quickly they're cubbled But if the IT organizations together - and then discardare more nimble than their ed. For better or worse, camcorporate counterparts, they're paigns live in a world of disposable II

Everything you use didn't exist a year ago," says Mike Liddell, director of Internet strategy for the Joe Lieberman for President compaign in Arlington, Va. "And what you've created was done in a short amount of time and has a short life cycle."

That means concerns about integrating with back-end systems or anticipating the long-term effects of choosing between an open-source technology or a proprietary approach just don't matter, since the life cycle of a presidential campaign is so short.

Unlike most businesses



point, says Sean Kewley, vice president of Voter Solutions Inc., a Chicago-based supplier of database and voter analytic software. That's why they don't invest in an IT infrastructure loaded with network switches or high-performance servers. "Why would you when you know that the onsa nization is going to dissolve on election day?" he asks

campaigns have a termination

marketing at Campaign Super

Jan Soulé, vice president of store in San Jose, says she thinks presidential campaigns are far behind on current technology "because they only look at it every four years." Her company offers Web site templates for candidates running for office, including

Rep. Jim Gibbons (R-Nev.). With them, Soulé says, a candidate can get a professionallooking site for about \$1,000 - a reasonable amount to

spend on a system that will simply be cast aside at the end of the election cycle

Time to Market Nicco Mele, webmaster at the Dean for America headquar-

ters in Burlington, Vt. says be agrees that long-term IT thinking is detrimental to a political campaign. "What matters is how fast. It's a time to-market environment," he says. So, like many corporations today, campaign IT organizations turn to outsourcing. For example, Howard

Dean's campaign makes heavy use of streaming video on its Web site but never gave a thought to developing any infrastructure for it in-house. Instead, the campaign relies on streaming media service provider Wavexpress Inc. in New York Throwsway IT operations

also affect the kinds of people hired or accepted as volunteers inside a candidate's IT not necessarily more advanced. organization. It's vital to quickly get people who have similar skill sets because there's no time to train anyone. The Lieberman campaign

uses an all-Microsoft technolozy strategy, from Interpet In formation Server on the Web tier to Exchange for messaging and SQL Server for databases because most potential IT staffers are familiar with those products, Liddell says.

For Dean's IT troops, howevez, adopting popular openswarce technologies is the way to go. His campaign's Web infrastructure includes Red Har Linux, Apache Web servers and Bricolage, an open-source Web content management tool from Kineticade Inc. in San Francisco

Short-term Thinking It's doubtful that politicians

will change their attitudes about IT as a transient resource and think beyond their current campaigns. In many cases, the IT infrastructures and even the data are discarded.

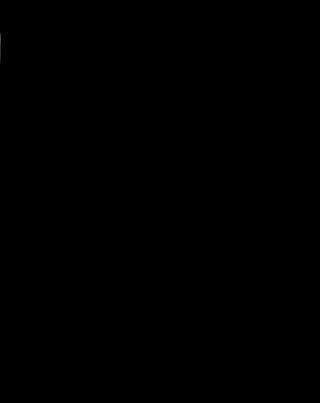
Michael Badnarik is trying to get the nod as the presidential candidate for the Libertarian party and spent more than 30 years as an IT developer and consultant. He says the discarding of data reflects the time-critical nature of most voter information, "That's essentially the problem: It drops to zero after the elec-

For all the drawbacks, however, a disposable IT strateg that gets results quickly could transfer well to some corporate projects with short-term needs, such as on-site audits and tarrected marketing of forts, say campaign workers.

And the approach of campaign IT organizations mirrors that of at least one type of business; companies that emented during the dotscore boom, when time to market was everything, "It's like working in a start-up," Liddell

PAPERING OVER E-VOTING PROBLEMS

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Short-term Thinking It's doubtful that politicians will change their attitudes

about IT as a transient resource and think beyond their current campaiens. In many cases, the IT infrastructures and even the days are discarded.

Michael Badnarik is trying to get the nod as the presidential candidate for the Libertarian party and spent more than 30 years as an IT developer and consultant. He says the discarding of data reflects the time-critical nature of most voter information, "That's essentially the problem: It drops to zero after the election," he says.

For all the drawbacks, however, a disposable IT strategy that gets results quickly could transfer well to some cornorate projects with short-term needs, such as on-site audies and targeted marketing offorts, say campaign workers.

And the approach of campaign IT organizations mirrors that of at least one type of business: companies that emerged during the dot-com boom, when time to market was everything. "It's like working in a start-up," Liddell

ROBUST OBJECTS AND ROBUST SQL



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ment technology for twenty-five years. We provide 24x7 support to four million users in 88 countries. Cache is available for Windows, OpenVMS, Linux and major UNIX platforms – and it is deployed on systems ranging from two to over 10,000 simultaneous users.



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better integration between tools. Vendors say the the evolving Data Center Markup Lan guage will be critical to the development of utility computing and simplify life for data center managers. The first release of DCML is scheduled this quarter, with products adapted to the specification expected by midwar.

One of the leaders of the effort is Tim Howes, chief technology officer at Opsware Inc., a data center software au tomation wendor in Sunnyvale, Calif. He discussed the motivations for developing DCML and its technical challenges and potential user benefits with reporter Patrick Thibodeau

What problem is the DCML Organization trying to solve? Over the past five to eight years, there has been a tremen-

dous explosion of complexity in the data center. The problem is that the traditional management tools haven't kept up with that explosion. You have something doing monitoring, for instance, that needs to communicate with something doing provisioning.

Think back 10 years ago. There were relatively few servers in the data center. Those servers were relatively large, and they were running a relatively small number of applications. maybe in the dozens. Today, there are literally thousands of servers in data centers, as well as hundreds or thousands of applications running across those servers. The complexity of managing that has just gotten out of hand.

re are existing management tools falling short? It's not so much that they are falling short. The problem is that no one company writes data center management software that solves the entire problem. Even if there were such a company, would you really want to put all your ergs in that basket?

Where does DCML fit in? There's a need to have all these management products communicate with one another, and that's what DCML is about - providing a common data format for exchanging information about the environment being managed between all of these different management systems.

Can you give an example of hour that would

THROUGH

work? When you provision a new machine, you want to make sure that machine is monitored, so you need to communicate to your monitoring system that there's a new machine to be monitored. Today that happens, if you are lucky, by somebody leaving a Post-it note on the monitor of the guy

who runs the monitoring system, But DCML allows that to happen in a more automated fashion, Similarly, that happens with security systems, backup systems - there are all kinds of different systems. DCML provides the vocabulary, the language if you will, for those systems to communicate with each other

How long is the list of applica-tions and systems petentially

s and systems petermany cted by DCML? The list is ultimately as long as the variety in the data center - any system that you are using to manage your envirrament We're focused on the data center because that's where we think the most complexity is, but the complexity actually extends beyond the data center in other environments as well, and there's nothing to prevent you from applying DCML to those environments.

> of are the initial goals for DCML? We're trying to

create a standard data for mat that can be used to exchange information between automation and utility computing systems and traditional management systems. The use cases that we have in mind are: making sure provisioning systems can communicate with the systems that manage the machines that they provision; making sure those systems can communicate with the asset-tracking, inventory and billing systems that are responsible for keeping track of what's going on in the environment; and translating that into billing for customers or cost accounting for internal purposes. We want all these things to be able to communicate with one another.

What technical challenges do you face? The biggest technical challenge is being able to deal with the level of diversity that's out them. Another tech nical challenge is to define DCML in such a way that it can be adopted incrementally so that neither vendors nor customers have to radically change their products or how those products are used

What kind of information must be ex-changed, and in what format? The format is XML-based. The information really falls into three categories. The first is

the physical components themselves - the environmental information such as characteristics of the server and networking gear. The second type of information, called the library, is the best practices and policies that you want. Finally, there is the blueprint, which shows bow to combine those physical components in with the best practices that you specified in the library to produce an actual environment. DCML is not going to mandate the best practices. Instead, it will provide the mechanism to express hest practices that would be different from one IT department to mother.

The hig challenge in writing standards is often political - balancing competing ver dors' agendae, is that true here? It's always a bit of a challenge. We've got an opportunity to decide whether we want to make a standard that's very useful on the ground and works or that satisfies the political winds of different players. Historically, the standards that are successful are the ones that stay focused on implemen tation and adoption. Success to me is not how many [vendors] sign up and say they are going to support the standard. Success is how many get in into their working code and then how

many customers end up using it. Some hig vendors, including Sun, HP and IBM, aren't involved with DCML, Can you without their partici not at all surprising to me. The big companies are invested in their own proprietary technologies, and they often don't see it in their interest to migrate to an open standard until or

unless their customers force them to do so. O 43784



Magic

Coming: 3-D electronic parts from your ink-jet printer. By Todd R. Weiss OU'RE DRIVING across Iowa on a steamy, sunny Fourth of July weekend whoe the car dies and coasts to the side of the road, the victim of an electronic part gone bad inside the alternator. Lucktly, there's a 28-hour repair shop in Iowa City where they can 'prim'

you a new circuit board on the spot using a specially equipped printer that sprays out isyres of initiate polymers, with all the electronic connections and transistors laid out in the proper arrays. A mechanic installs the part, and you're back on your way with a repaired alternator.

A wild dream? Not necessarily.

Today, scientists at universities and companies are working on just such technologies, where specialized commercial

FUTURE Watch®

ink-jet printers can be used to create 3-D parts using processes that spray liquid plastics, one layer stacked atop another, to build up a

So far, researchers are able to create small transistors using 3-D printing methods, while specialized industries already exist that can print prototype, one-off parts

But while experimental transistors and prototype parts are being created separately today in labs, the technology still isn't here for printers to build

electrical circuits integrated into com pleted, working parts.

That technological quant-says lond That technological quant-says lond life has mechanical engineers of Palo Hibbs a mechanical engineers of Palo Alho Research Center (CARC) in California. "That's a vision Tm sure some people are trying out right now," be says. Eventually, technology that allows devices to print out 3-D parts with integral electrical capabilities could have immites uses, replacing could bave immites uses, replacing could provide the control of the could be the control of the country of the people of the country of the country of the charge of the country of the country of the charge of the country of the country of the country of the charge of the country of the country of the country of the charge of the country of the country of the country of the charge of the country of the country of the country of the charge of the country of the country of the country of the country of the charge of the country of the country of the country of the country of the charge of the country of

The technical challenges are still large, however, including the potential large, however, including the potential occid for many different kinds of materials to be printed, from plastics to steel to aluminum or even carbon fiber. "It means that everybody would have to have a printer that has loss of different carridgos or loss of different printers," Fitch says. "The chemistry of that is pretty complicated."

Rather than ending up as consumer items, such printers could ignite an industry in photocopying shops or other businesses where users could send a parts order by e-mail and pick it up or have it shipped to them, he says.

Smart 'Paper,' Labels Plastic Logic Ltd. in Cambridge, England, which today creates ink-jet-printed plastic transistors to make activematrix backplanes for flat-panel displays, foresees a host of new markets for the technology.

"Absolutely we see the large market in things other than in prototypings," says applicassion Cranch Lamble. "We've got a road map to work to crow things," he says. They are 'electronic paper' wided displays — thin. Bruible display devices — and flexible lastic "mare tables" that could be used on consumer produces. Such laber would contain electronic circuitry between the consumers when food in a package is consumers when food in a package is on longer fresh or could include a dis-

My kids would love a Lego printer [to create customized Lego building blocks for their construction projects].

3-D PRINTING RESOURCES

To get more information about 3-D printing and the research being done in this developing held of science, visit our Web site.

QuickList 43973

posable timer on a container of hair dye to let the user know it's time to wash the dye out.

The actual creation, though, of replacement parts on demand will take much more engineering, be says. "I see that as a very long-term vision of the technology." Lamble says. "We want to enable others to think about what can be done with these devices."

Printable parts are also being worked on today by researchers at the University of California, Berkeley, where flexible, one-piece 3-D devices are being manufactured using ink-jet printers that build parts one layer at a time.

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The property of the prop

"You can certainly imagine you could print out a whole drive train, if you can get the clearances," says Risner. "We want to print out functional devices." Printing movable parts would be far

harder then primting static components, of course. The idea of building printers that can churn our parts from various materials would be key to making it work. Risner says. "Ten differen materials, even if they're 10 differen plastics, is really cool to think about now," be says." I think it's far-fetched oow, but ... (maybe) it's something that would be feasible."

Ultimately there could be special, itself comments of the comm

What problem is the DCML Degenization trying to solve?



Howes

<u>1</u>anaging DATA CENTERS

What technical challenges do you face?

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Where does DCML htm?



PRINTER

Coming: 3-D electronic parts from your ink-jet printer. By Todd R. Weiss

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3-D PRINTING RESOURCES

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My kids would love a Lego printer [to create customized Lego building blocks for their construction projects].

corresponding standard.

guideline and procedures.

audit reports contain a de-

That presents a problem

The Auditor Issue

We used to have an audit per-

son in the information securi-

ty department, but after he re-

signed, we never replaced him.

At the time we couldn't find

a qualified candidate. Then

eventually we lost the requisi

tion for that position, and the

work he had been doing fell by

the wayside. We do have a sep-

arate audit department, but it

From my perspective, the

ance is ensuring that the poli-

important aspect of compli-

cies and standards we have

created are followed and that

we have a program to ensure

that all departments are com-

standards. This means that we

have to take the time to revisit

plying with the appropriate

the standards we created to

make sure they're up to date.

We started this work by

each department in order to

review documentation and en-

sure that it is current and he-

ing followed. We also lnoked

ous IT security auditor had

at some of the work the previ-

scheduling meetings with

mainly focuses on financial

matters, not IT security

Stepping Up to Sarbanes-Oxley

When it comes to compliance, some aspects of meeting the law's requirements may fall to the IT security group. By Mathias Thurman

SECURITY

MANAGER'S

IRNAL A

curity professionals are probably familiar with at least one of the many recent regulations that have an information security element to them. For my company, the legislation of concern is the Sarbanes-Oxley Act, which has presented new financial accounting and re-

porting requirements I recently reviewed the law to see what the IT security group needed to do to ensure compliance. It was without a doubt the most boring doc ument I've read in months

Besides getting bored, I also ame away confused because it offered no guidance on the related information security issues. After further reading, I decided that the most important part for my group is Sec-tion 404, titled "Management Assessment of Internal Controls." This section mandates that management attest to the effectiveness of our company's "internal control" structure and procedures for financial Adobe Acrobat files, Eventual reporting. Internal control is ly I'd like to convert all of the an extremely broad term, but I translated this section to mean that the CEO will expect my group to have sufficient controls in place to ensure the confidentiality, integrity and availability of financial and other critical information. So I came up with an initial plan to

ensure compliance. Over the past few years, I've put together a series of information security policies, standards, procedures and guidelines. Some of these documents are published, others

are available to those who ask, and others are just sitting in a shared folder on our network. I think we have enough infrastructure in place to satisfy most expectations of our exocutive staff and any auditor But to make everyone's lives easier, I decided to standardize on a methodology for poli-

cies and standards called ISO

17799 - something many of my peers are also doing. The ISO information security code of practice consists of a framework that provides guidance in creat-

ing strong informa-The ISO framework consists of 10 main sections, with several subsections within each. First I created a table of contents, making sure that the expected ISO 17799-compliant headings were in place and that there was a place for every policy, standard and guideline that we have erested over the past few years, Most of our documentation exists as either Microsoft Word or

Sarbanes-Oxler mandates that audit reports contain a escription of internal controls testing....

That presents a problem.

completed. Along the way we found an Access database that lets us enter audit items and track compliance and areas of Fortunately, there has been

an extension to the Sarbanes-Oxley compliance date, and that should give us the time we need to satisfy these audit

Goals for 2004 While the Sarbanes-Oxley ef-

fort will consume much of my team's time for the next few months. I have a few other ate a hyperlinked set of docuhigh-level initiatives in store ments where users can quickly for my group this year. The first will be an identity navisate from a policy to the

management system that includes public-key infrastruc-Even a well-organized set ture technology. The chalof documents doesn't ensure lense will be identifying all of compliance with those corpo the applications that the idenrate standards, however. Sar tity management system will banes-Oxley mandates that touch and ensuring that we make the right decision on scription of internal controls which vendor's PKI system to testing and that we document use. Along the way we'll have our system of internal control to decide whether to install a

certificate authority in-house or oursource that function Finally, there is still a lack of compatibility between PKI vendor offerings and other products. It's imperative that the system we pick be compatible with all of our applica

tions and operating systems. After that's completed, we will be looking for a new event-correlation tool. Our current product just isn't performing as we'll as we'd like, so we will look at several other ders. In addition, we will be looking to install a remote scanning system to continually scan our infrastructure for vulnerabilities. Finally, we will begin installing a configuration and patch management tool to address inconsistencies

within our environment. We want to ensure that both our critical servers and individual desktops have cons tent configurations and are up to date on patches for each environment. Those projects should keep us busy well into the new year. O 43963

WHAT DO YOU THINK?

SECURITY LOG

Sarbanes-Oxdey

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AlterPoint Bundles Network Products

AfterPoint Inc. in Austin last week announced its DeviceAuthority Surte, a bundling of three network configuration management products: DeviceAuthority Audit Med ule. DeviceAuthority Update Mod ule and DeviceAuthority Server. Integrated Network Environment. a new tool in the suite, provides real-time integration and feed back Pricing starts at \$19,950 for 100 devoces

Veritas Broadens Linux Support

Veritas Software Corp. in Moun tem View, Calif., has expanded its port for Lanux by including SUSE Linux and VMware. Veritar said it now has a full complement of enterprise storage, data protection, high-availability and automated provisioning software sUSE Linux and Red Hat Linux

Red Hat Undates Linux 3 System

Red Hat Inc. in Raleigh, N.C., anced the first major update for its Enterprise Linux 3 operating system, adding features for Red Hat Network support subscribers. Those include perfor mance enhancements for AME Athlon 64 CPUs: improved sup port for IBM (Series, pSeries, zSeries and S/390 systems; and support for new Intel Itanium 2based systems. The updates are available free from Red Hat

NetScaler Offers New Switches

NetScaler Inc. in Santa Clara. Calif., last week introduced the 9900 Secure Application Gate way and the 9950 Secure Apoli cation Switch. The devices are designed to optimize application nce and security in the Layer 4-7 traffic management market. The 9900 gateway sel for \$55,000, and the 9950 switch sells for \$90,000

Find a Successful Search Strategy

EXT-SEARCH TECHNOLOGY is finally coming of age. Stand-alone search "solutions" can still be ludierously bad: Monsanto's top 10 hits for "fertilizer" lead to boilerplate legal disclaimers, Boeing's top 10 hits for "jet fighter" feature discontinued aircraft,

and Toyota's top 10 hits for "Camry" are in Chinese. Buttwhen text search is integrated into a broader application framework, the story is much happier. Search is

a clear success in several but it also can be heloful line retailing or regulationdriven document manage ment. And as the means im prone of integrating test much broader range of text aware applications is become

Nome of the more intricu-

Upgrading your Web presence surch you already have a Web site. But it could probably be a lot

me opportunities includ-

Upprading your prime documentation. If some online it's probably hard to maying Helping customers find what they need more casals can save both them and you a lot of money. Effective test search is

Navigating applications more easily, 1 area. e confinerce siles are often best navirated various americs such as "John Grisham" may be true for back-office systems such

Helping your people find one another. Name one an employee scarches for information on a subject and finds suggeds relevant intermation written by a colleague. There's a possi chance that talking with this person will help your employee find out what he needs to know. Not only is such expertise-finding invaluable in global engincering and consulting organizations.

in figuring out how to uppreach particularly tricks or integrant sales challenges Diograp into text mining. Your probably have a wealth of text and even voice records

pertaining to customer contacts as sension call popular call center reports, sales call reports, customer letters and e-mails, even recorded plume calls or chat sessions Analyzing these could turn up cracial information

about customer scenicitation or about product strengths, weaknesses and flaws. It's a pumble, because you don't know how much you'll really find - but just like the original form of data mining.

it's a gamble worth taking. All of these application scenarios depend on text being related to other kinds of data. In unaugmented text search,

documents are searched for words and planace, which are then used to more the subject of a document. However, linguistic techniques alone aren't enough to produce satisfactory results. This is why pre-Gaogle search engines all fuled: until Google come up with an effective way to use extra nonlinguistic information. the Web search relevancy problem simply couldn't be solved.

Goode's solution - looking at a pupe's "link popularity" - isn't applica ble to most corporate search environ ments. However, enterprises have access to eleare of other extratextual information. Documents can be tagged by that author, subject and, above all, intended audience and purpose. Customer com munications can be associated with fremendous amounts of customer and product data Most of this information is best stored and communicated via SOL. Lightweight Directory Access Protocol (LDAP) or XMI

The key point of integration between test and these other kinds of data is a full-featured database management system, IBM and Oracle both support WHERE CONTAINS' SORTAL Letting text searches and normal relational queries be soined in a single SOI state ment. And since SQL systems these days can also talk XMI and LDAP, those into grations are provided as well. Textspecific features are still missing from application development tools, but that's not crucial. Since relational database management systems stuff an entire doament into a binary large object field.

peneric SQI building technology is usually all a programmer needs. tration of text and tabular data. Text

search relies on specialized test indices. which are house, sparse and generally a lot like bit maps. Integrating text for bumap) indices into relational databases is Fortinguely, however, Oracle and HOA

are pretty far alone in text relational integration, with Oracle being somewhat ahead of IBM. Microsoft, which has long lagged behind, pledges to narrow the gap So should you incorporate text search

in the applications you build or buy? For most enterprises, the answer is wes. Text data is obviously personne and impotant. The cost of integrating text with other data types is manageable. Textsearch boxes are a major form of user interface. If you don't have a text strategy, you're probably not getting the most our of your I'l opportunity. O 44141

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Find a Successful Search Strategy

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But when text search is integrated into a broader application framework, the story is much happier. Search is

a clear success in several specific niches, such as online retailing or regulationdriven document management. And as the means improve of integrating text with other kinds of data, a much broader range of textaware applications is becoming practical as well. Some of the more intrigu ing opportunities include:

Upgrading your Web presence Surely you already have a search capability on your Web site. But it could probably be a lot

provide a lot of sechnical information online it's probably hard to navieue Helping customers find what they need more easily can save both them and you a lot of money. Effective text search is crucial in this effort.

Maximuline applications more early. Large e-commerce sites are often best navigated via text queries such as "John Grisham or "red turtleneck sweaters." The same may be true for back-office systems such as merchandising or purchasing

Holping your people find one another. Suppose an employee searches for information on a subject and finds vaguely relevant information written by a colleanue. There's a good chance that talking with this per son will help your employee find out what he needs to know. Not only is such expertise-finding invaluable in global engippering and consulting organizations.

but it also can be helpful in figuring out how to approach particularly tricky or important sales challenges. Digging into test mining. You probably have a wealth of text and even voice records pertaining to customer contacts - service call reports, call center reports, sales call reports, customer letters and e-mails, even recorded phone calls or chat sessions

Analyzing these could turn up crucial information about customer segmentation or about roduct strengths, weaknesses and flaws, It's a gamble, because you don't know how much you'll really find - but

just like the original form of data mining. it's a gamble worth taking. All of these application scenarios depend on text being related to other kinds of data. In unaugmented text search,

documents are searched for words and phrases, which are then used to assess the subject of a document. However, linguistic techniques alone aren't enough to produce satisfactory results. This is why pre-Google search engines all failed: until Google came up with an effective way to use extra, nonlinguistic information. the Web search relevancy problem simply couldn't be solved.

Google's solution — looking at a page's "link popularity" -- isn't applica ble to most corporate search environments. However, enterprises have access to plenty of other extraternual information. Documents can be tagged by date. author, subject and, above all, intended audience and purpose, Customer communications can be associated with tremendous amounts of customer and product data. Most of this information is best stored and communicated via SQL, Lightweight Directory Access Protocol (LDAP) or XML

The key point of integration between text and these other kinds of data is a full-featured database management system. IBM and Oracle both support "WHERE CONTAINS" syntax, letting text searches and normal relational queries be joined in a single SQL state ment. And since SQL systems these days can also talk XML and LDAP, those insegrations are provided as well. Textspecific features are still missing from application development tools, but that's not crucial. Since relational database

management systems stuff an entire document into a binary large object field, generic SQL building technology is usually all a programmer needs. What's trickier is integrated administration of text and tabular data. Text

search relies on specialized text indices. which are huge, sparse and generally a lot like bit maps. Integrating text (or bit map) indices into relational databases is far from trivial

Fortunately, however, Dracle and IBM are pretty far alone in text/relational integration, with Oracle being somewhat ahead of IBM. Microsoft, which has long lagged behind, pledges to narrow the gap

So should you incorporate text search in the applications you build or buy? For most enterprises, the answer is wes. Text data is obviously pervasive and impo tant. The cost of integrating text with other data types is manageable. Textsearch boxes are a major form of user interface. If you don't have a text strategy, you're probably not getting the most out of your IT opportunity, O 44141

WANT OUR OPINION?

Closing the Deal

GE Real Estate has automated most of the front-end processes on commercial real estate deals, and that has led to shorter cycle times and higher volumes. Page 38



SIM Focuses on Advocacy Nancy Markle, the new president of the Society for Information Management, lays out her three-part agenda: awareness, chapter growth and the creation of alliances for legislative advocacy. Page 40



The Top Five Issues for CIOs

Barbara Gomolski says Sarbanes-Oxley compliance, outsourcing, security, project prioritization and cost management are the hottest issues that CIOs will face this year. Page 42

four proven strategies for identifying and clearing out costly shelfware.

Here are 📱 by Julia king

ESEARCHERS ESTIMATE that seven out of 10 compa nies have little or no idea who exactly uses the software deployed throughout their businesses. Many of these companies are equally cheeless about what their software portfolios include and whether the applications have actually been installed or remain shrink-wrapped and collecting dust on

cubicle shelves. In 1999, U.S. corporations wasted \$90 billion by buying IT assets they already owned, buying the wrong technology and making unnecessary payments for returned and retired hardware and software assets, according to Meta Group Inc.

Five years later, the same problems remain rampant. Gartner Inc. estimates that most companies typically have about a 30% discrepancy between what they think is in their IT inventory and what they really have. Yet many still fail to collect and integrate software usage data into their overall IT management plans. Consequently, U.S. businesses continue to overbuy licenses for 60% of their software portfolios and are noncompliant on another 30%



MANAGEMENT

PURCHASE JUST IN TIME

HIRE A SOFTWARE EVANGE

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Where and When to Start

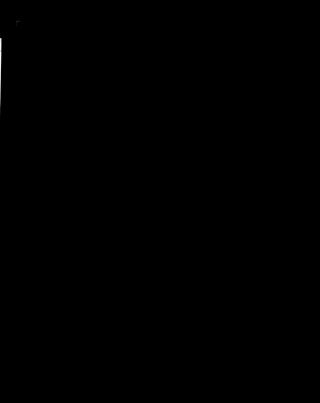
re software asset masageprogram can expect to save ts, according to Dave nt at Isogon. Best of all is the bulk of savings are locat-

they are and you have full-time go after them."

Dworkin also says the best time to start a software asset manage ment program is when a new CIO people don't have a history. It's their job to come in and get a jump start." In contrast, he says, veter nching an aggressive sol of them see it as [an effort] that's going to definitely prove they haven't been doing a go

REUSE AND RETURE : ...

omitables O 43585



of their software assets, Gartner says. But poor IT asset management isn't the only culprit. So-called shelfware can accumulate as a result of canceled or scaled-back projects, corporate downsizings, decentralized IT purchases, a failure to adequately train and subsequently monitor users or a failure to buy the right technology to

begin with Here are four proven tactics for identifying and clearing out shelfware. plus leveracing the software you have to yield maximum business value

PURCHASE JUST IN TIME. Buying only the software you need and only when you're ready to use it - sounds simple enough. Yet vendoes' offers of hefty volume discounts, sometimes as high as 50%, frequently induce companies to buy ahead for projects still in the planning stages or to buy more licenses than they immediately need as a way to accommodate future growth. Neither option is a good

deal, experts say. "It's a time-delay issue. The more ou buy, the hetter the deal you get upfront, but the more maintenance you pay down the road," says Gartner analyst Scott Nelson. He notes that vendors usually peg maintenance fees to list prices, not discounted prices, and the fees kick in immediately, regardless of whether the software has been installed. The upshot is that the longterm savings are negligible

That's one big reason CIO Jim Jackson says he doesn't purchase software suites for his company, Intertape Polymer Group Inc. in Bradenton, Fla. Instead, Jackson and his IT team identify the specific requirements of a user group and then buy an off-the-shelf software package that meets 70% to 75% of those requirements.

That way, I achieve immediate benefit on the implementation of that product," he explains. "I then look at the remaining requirements and, in most cases, I can go out again and buy another off-the-shelf package and bolt it on and achieve up to 90% of the original requirements. I've never had to go more than one iteration beyond [the original package]." The result: "I dun't have software sitting on the shelf," lackson says.

IRE A SOFTWARE EVANGE-LIST. "You have to put someone in place and make them accountable for watching over an application to make sure it has a business impact," says CIO Rich Bursek at Lydian Trust Co. in Palm

Beach Gardens, Fla. Lydian recently implemented a multimillion-dollar IP telephony system from Cisco Systems Inc., and Bursek hired a dedicated person whose job is to make sure that users leverage all of the system's features. The evangelist

also conducts ongoine training and looks for additional ways to integrate the new IP telephony system with existing software.

Bursek also hired an evangelist for Lydian's deployment of enterprise business intelligence and reporting software from Crystal Decisions Inc. Because evangelists feel they have ownership of their particular applications, they tend to be passionate

about their use, Bursek says But constant vigilance is also critical. Almost two years after completing a new \$10 million customer service and call center system, PacifiCorp, a Portland, Ore.-based electric utility, continues to monitor employees' usage and gather their feedback about the system as a way to gain maximum

business value from it 'After a system goes in, we monitor who's using it and ask if they need additional training and hold focus groups to see what changes they'd make," says Jann Davis, director of systems devel-

opment and asset management. One of the initial goals of the system was for PacifiCorp's 325 call center agents to handle 80% of incoming calls in less than 20 seconds. This entailed scripting responses tailored to the types of calls that typically came into the company's two call centers. But keeping the team to the 80/20 rule was a problem because certain team members wanted to script responses for the rarest types of customer requests, says Davis. "I had to keep pointing out we didn't need a Ferrari," Davis says.

> CHARGE FOR SOFTWARE BEAGE. If naly one or two

departments use a software application that costs, say, \$500,000 a year in liceuse and mainte nance fees, shift the expense to those departmental budgets, suggests Dave Dworkin, director of product management at Isogon Corp., an asset management software and consulting company in New York. "We see these types of applications all the time," he says. "And it's amazing how quickly the department can do without the application."

A variation on this pay-your-ownway model is in place at Houstonbased BMC Software Inc., where all software purchases are approved by IT but are paid for by individual departments. "If someone wants a new application, they come to IT and ask for it. but they come with their checkbook,"

says CIO Jay Gardner, An added benefit of RMC's centralized buying and strict IT governance model is a much more accurate picture of the company's hardware and software inventory and overall IT in-

frastructure usage. "To control costs, you need a good understanding of which applications are using which servers, network con nents and databases. IT and CIOs have been forced to be more cognizant of this issue because they're much more accountable for the money they

spend," Gardner says. On the other hand, Lydian's Bursek says a decentralized IT buying model can also keep departments from overbuying software or buying software that languishes unused. At Lydian. each business unit has its own technology group and its own profit-and-loss responsibility. "They don't want to overbuy because it has a direct impact oo their P&L," Bursek says.

REUSE AND RETURN. Provide ness departments seeking a new piece of software at The Vanguard Group Inc., a mutual funds giang in Valley Forge, Pa., take their requests to the so-called tech team, through which all IT acquisitions are made. Reusing standardized software already in place is the team's op priority. "If a [user] group wants an ad hoc reporting tool, we'll go through our [enterprisewide] inventory of applications, and if we have a standard tool in place, we tell them what it is and what it does. Then their job becomes knocking out the incumbent software," explains John Mercante, a principal who heads Vanguard's technology operations. Replacing software is a zero-sum exercise at the company. Multiple software tools and applica-

tions that do the same thing simply aren't tolerated, he says. That's why retiring software is just as important as buying it, Mercante emphasizes. In 2002, Vanguard retired 87 software products when herrer or came along to take their place. In 2001, it retired more than 100 applications.

The company also has a dedicated program manager of software retirement. *Pulling the plug is a very key metric

for us," says Mercante. "We constantly look at what we brought in and what we've retired. It pays huge benefits, but you have to control monitoring and accountability." O 43585

ARailroad

New system turns radio messages from the locomotive into shipment-tracking data for managers and customers. By Bob Brewin

ANY CASUAL SHOPER can tap into a FedEx or UFS Web site and determine the location of even the smallest of packages. But until recently, The Burlington Northern and Santa Fe Railway Co. (BNSF) tracked its trains the old-fashioned way, through two-way voice radios located in every locomotive cab.

dios located in every locomotive cab.

Train crews dropped off cars
and then radioed that information back to a dispancher at a
BNSFs high-sech network operations center at the railroad's
headquarters in Fort Worth. Texas.
The dispatchers would then have to
type these reports into DBZ databases;
ranning on BM mainframe computers.

running on IBM mainframe computers.
Though BNSF could communicate
with train crews over engine-cab radios hooked into a private microwave
system that spanned 14,000 miles in 27
states, the system provided *static information,* according to lohn Hieles

BNSF's director of unified messaging. Crews would start their day with written work orders and turn them in at the end of the day — with periodic calls to report cars dropped off or picked up. Jeff Campbell, BNSF's CIO.

viewed this approach as outdated, cumbersome and incapable of meeting the demands of customers and railroad management for nearreal-time data. Last year, BNSF launched a project to natomatically turn those voice radio calls into data capable of integration into

the company's computer systems. Campbell says BNSF decided to use its volce radios as the interface to an interactive voice response system and tapped ScanSoft Inc. In Peabody, Mass, to provide it with speech-recognition software. ScanSoft had never integrated IVR with a radio system before, and the company found is a challenge, said Rob Kassel, ScanSoft's senior product manager for network speech.

manager for network speech.
That's because two-way radio systems have lower fidelity than the
phone lines traditionally used with
IVR. The fidelity problem was compounded by the noisy environment of
locomotive cab. Kassel adds. ScanSon is
solved to the See See See See See See See
built the BNSF IVR application on it
speech Works software and added
noise filters. SeanSoft also sampled engineer radio calls to teach the software
to recognize speech generated in the

a noisy environment.

Although this is an unusual application of an IVR, Dan Miller, an analyst at Zelos Group Inc. in San Francisco, says radio-to-data interfaces are the next frontier for IVR systems. There's a "huge growth potential" within must

a Thuge growth potential' within man industries, including trucking, utilities and field service fleet firms, he says. Once ScanSoft completed its work, Campbell says, BNSF integrated the SpecchWorks software with an IVR

spects works sortware with an IVR platform from intervoice Ice, in Dallas and a digital radio interface from Telex Communications Inc. in Burnelles, Minn. Beth Bonjour, assistant vice president of technology at BMS, caps the railroad then wrote the mid-fleware to integrate what the company calls the Radio Telephon vinterface.

(RT) into its systems.
Dispatchers as BNSFs network oper ations center control the RT1 through a phone icon on their screens, Hicks says. This shows all the radio frequencies as well as cell phone and landline connections. When a train crew calls in, the dispatcher clicks on the appropriate link, and the RT1 takes the crew

through an interactive audio menu with prompts for information such as car number and location. BNSF rolled out the RTI in its Fort Worth division last year and plans to take it systemwide by 2005, starting with its Gulf and East Texas divisions this year Composite over the Action to the composite of the Composit

take is systemwide by 2005, starting with its Gulf and East Texas divisions this year. Campbell says. He declines to break out the cost of the RTI but says BNSF's IT budget will hit \$274 million this year, up \$1.5 million from 2008.

2000.

The rough Histo says in a system that automatically integrates spatio calls with back-end systems, providing all Mary Says and the strain and individual cars in tever had before. Campbell says that "improves customer satisfaction" by allowing BMSF out palses in Transportation. BMSF out pushes in Transportation. BMSF out pushes in Transportation. BMSF out pushes in Transportation Support System in near real time. The with more frequent information outer amoves "and closer expected time of arrival." Campbell says. 4 4800?



A BIG TRAIN SET

Burlington Northern Santa Fe has started to deploy a wereless-LAN-based Remote Control Locomotive (RCL) system to all its switch engines, in hopes of boosting efficiency and cutting accidents.

Othery and cutting accorders. BNGF uses the seatch engines to make up haves in the sail years. This involves couping case to the seatcher, encough purepring case to the seatcher, encough purefrom one teach to aerother and then couping them to the new team. The has isositionally been managed by a conductor on the ground, communicating via radio or hard signed with an engineer in the cable and if is a recipit or conductor, according DNSF COU Jeff Campbell. The conductors cannot see the compression in the conductors

and woo versa, a situation that corretines results in bone-crushing injuries. BNSF started last year to replace these two-person switch crease with one-person. RCL systems, which consist of a beth sack.

who person switch cows with one-person. RCL systems, which consist of a beth pack device worn by a yard worker that mentics all locomotive controls - including the horn - and is hooked up by a WLAN limit to a controller in the unmanned cab.

BNSF uses RCL systems from Sent-Laurent, Quebes-based CAMAC Inc. and the Ene, Pa. based GE Transportation Systems division of General Electric Co. The CAMAC WLAN operates in the Isomeral 450-4M/tz bland, while the GE version operates in the unificensed 900-4M/tz band.

Though RCLs might seem hexardous. Campbell says that in 10 years of use on Canadian ratinoads – which pioneered RCL. – yard accidents have dropped 40%. The RCL best pack has built-in safety feetures, including a fit mechanism that stack down the locometive if the operator sharts brush to locometive if the operator sharts or the second of the comments of the second of the the locometive if the operator sharts or the locometive if the operator sharts or the second of the comments of the property of the second of the property of property property of property of p

more than 45 degrees.

BHSF currently has 220 switch iscomotives equipped with RCL. The railroad expects to have all its switch origines.

equipped with RCL by 2005.
Campbell says that besides emproving safety. RCL has already started to pay off on the bottom line. "We can build at train faster with one person than hav, and we don't need switch engineers any longe," Campbell says. The switch engineers are all being offseep lobe on long-had freights.

- Bob Rosson



Real Estate has automated most of the from end proccess for commercial real conditions and the from the information of the from the employees can close deals distert and most on to the next ones.

thus supportant hecause, while their supportant hecause, while most of the US economic has been sputtering over the past three very the commercial real estate sector has been white-bot Prices for shopping malls office hundrings and industrial complexes have shot through the root

with intensified competition. The very competitive out there, and with interest rates being low, we have to work harder to be competitive? say this held editively, directly at GF Real by the content of the competitive of the competitive. The competitive of the

Not that GF Real Foatie had been underperforming in 2000 and 2001, the company's carriangs given 24% and 25%, respectively, according to GFS annual reports. 'Our husaness was doing well to those much use of technical population of the company of

GF that support commercial real estate financing deals were conducted minimally, like colling or faving in the details of an engineering report and entering them mine the deal binder, says dupinick. Whenever the sentus of a deal had to be updated, that would rigger a flurry of ploons calls and faves among 18 to 20 people, including subspecifies undertributed and evolution of the updated of the

risk managers, says Gabrieke, in 2004. 35 sma an opportunity to automate the horis share of those activities while making the sales cycle more efficient and accurate. That year, the company began developing a customized, bruss er-based system using deal management software from New. Wille-bosed, Capital Thinkur Inc.

torre-resease apriat i missing the The jam-based systems, which GF calls RF Source, electronically captures mest of the information that jones hits a commercial real estate deal and makes it available online to key participants. That has at cords and shortened the sales exple for deals in the \$10 million to \$100 million range by 10% to \$75%, cove / 200 million range by 10% to

"Thanks to this technology, we've been able to undersome 29% more deals and remove 58 million to 59 million in expense each year for the past two years with the same amount of staff." Jermick says. Although it's rough to quantity the pecies in post the seven-figure 11 investment list had on the company's reseming. Appendix says that the system your in addition of a lead basile various properties of the system of the syst

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GE Real Estate Sunford Core Primary business Commercial real state doct and equity framony Sure Nearly \$218 in risorts Employees, 6,000

"The bostom line untree is more apparent from a productivity standpoint" than the top-line palms yet, 355 small. For instance, GF-sileepoor used to strandnative often in get needed changes and approvals on deals, says talarnele. By creating a collaborative yeters where

approvals can be done electronically, she says salespeople "are freed up in the field to work on the next deal." Zupnick acknowledges that competitors such as Royal Bank of Canada and IP Morgan Classe & Co, have invested in comparable systems, Indeed, com-

mercial real estate management has become much more automated than it used to be, says. Thomas Glendering, president of Front Street on the Hudson

LLC.a Newhurgh, NY-hased developer of distressed commercial properties. "Even at a conventional level, what used to take weeks and months for financing approval can now be done in

hours' says (dend-oung). Investments in GFS RF Source proced in baded adding Gracle database laceness adding Sun Microsystems. W80 Units servers for testing, adapting, production and backup systems; and hiring a few hay pregnammers and cross-chaining source veteran IT workers on Jana, says Cohriele.

ers on past, says cannede.
The core system was ensomined by
GF development teams in Samford,
Conn., and Pallas, and by Capital-Thinking, it is used by about 1200
people and includes workflow, document management, reporting, and

e-mail notification capabilines.
When the system went live in January 2002, 10 people from both Capital-Thinking and GF were working on the project. Now nine GF staffers provide support and additional enhancements to RF Sources.

August and Gabrieles tourn brought in oud seers from a suriety of departments early on and a shed them how the system could be enhanced to make them more producive. Gerting, histoness peers to free up their time to work on the system "is often one of the biggest childrens," ways Vipruts. But he and Gabriele were able to gain their commitment by highlighting the henrycommitment by highlighting the henry-

fits of the system. her example, RF. Source uses colorcoded fields to reflect a deal's status, such as whether the financing teach such as whether the financing teach have been proposed or accepted. And it a deal gets approved, any Calebriel, salespeople are automatically motified, salespeople are automatically motified to their Hilackherry devices. Clif salespeople can send and receive information of the salespeople and the salespeople are deals using their mobile, devices, says deals using their mobile, devices, says spenies. Get will consider adding that

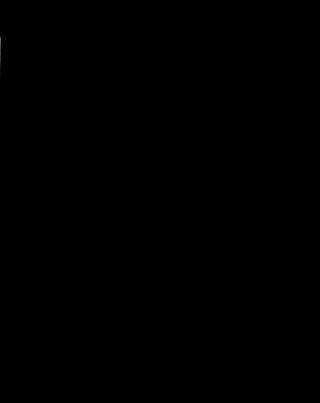
GF schedules four updates to the system each year. Current work includes incorporating an enhanced version of the system that's used in Japan to make it easier and faster for solespeople to preserven potential deals, says Gabricle. Whatever enhancements do come

Zuptick sees them as affirmation of a successful project. "That the business is continuing to invest in technology is a validation of our work." © 44009

Deä

BY THOMAS HOFFMAN





SE IT ORGANIZATION at GE Real Estate has automated most of the front-end processes for commercial real estate financing, which means employees can close deals faster and move on to the next ones.

That's important because, while most of the U.S. economy has been sputtering over the past three years. the commercial real estate sector has been white-hot. Prices for shopping malls, office buildings and industrial complexes have shot through the mof

with intensified competition. "It's very competitive out there, and with interest rates being low, we have to work harder to be competitive," says Michele Gabriele, director of North American technology at GE Real Ex tate, a division of GE Commercial Finance, one of four finance arms of General Flortric Co.

Not that GE Real Estate had been underperforming. In 2000 and 2001. the company's earnings grew 24% and 25%, respectively, according to GE's annual reports. "Our business was doing well without much use of technology, but there were real opportunities to improve through automation," says Hank Zupnick, GE Real Estate's C1O. Historically, many of the activities at

GE that support commercial real estate financing deals were conducted manually, like calling or faxing in the details of an engineering report and entering them into the deal binder, says Zuronick. Whenever the status of a deal had to be updated, that would trigger a flurry of phone calls and faxes amone 15 to 20 people, including salespeople, underwriters, appraisers and credit

risk managers, sava Gabriele. In 2001, GE saw an opportunity to automate the lion's share of those activities while making the sales cycle more efficient and accurate. That year, the company began developing a customized, browser-based system using deal management software from New York-based Capital Thinking Inc.

The lava-based system, which GF calls RE Source, electropically captures most of the information that goes into a commercial real estate deal and makes it available online to key participants. That has cut costs and shortened the sales cycle for deals in the \$10 million to \$100 million range by 10% to 20%, says Zupnick.

Thanks to this technology, we've been able to underwrite 25% more deals and remove \$8 million to \$9 million in expense each year for the past two years with the same amount of staff," Zupnick says.

Although it's tough to quantify the precise impact the seven-figure IT investment has had on the company's revenue. Zupnick says that the system paid for itself within a war In addition GF Real Estate's carnings rose 23% from \$650 million in 2002 to \$845 million in 2003. according to Dan Smith, senior vice

president of the North America Debt group in Dallas. "The revenue side is a lot trickier to measure, but we hear a lot of people in the company saying we wouldn't have been able to do as many deals and do them faster than we could two years

For instance, GE sales people used to travel deals, says Gabriele. By creating a collaborative system where approvals can be done electronically she says, salespeople "are freed up in

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used to take weeks and months for financing approval can now be done in hours," says Glendening Investments in GE's RE Source proiect included adding Oracle database licenses; adding Sun Microsystems V880 Unix servers for testing, staging, the field to work on the next deal production and backup systems; and Zupnick acknowledges that competihiring a few Java programmers and tors such as Royal Bank of Canada and cross-training some veteran IT work-J.P. Morgan Chase & Co. have invested

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Zupnick and Gabriele's team

brought in end users from a variety of departments early on and asked them how the system could be enhanced to make them more productive. Getting husiness peers to free up their time to work on the system "is often one of the biggest challenges," says Zupnick. But he and Gabriele were able to gain their commitment by highlighting the benefits of the system.

For example, RF Source uses colorcoded fields to reflect a deal's status, such as whether the financing terms have been proposed or accepted. And if a deal gets approved, says Gabriele, salespeople are automatically notified on their BlackBerry devices, GE salespeople can send and receive information about a pending deal using their BlackBerries, but they can't approve deals using their mobile devices, says

Zupnick. GE will consider adding that feature next year. GE schedules four updates to the system each year. Current work includes incorporating an enhanced version of the system that's used in Januar to make it easier and faster for salespeople to prescreen potential deals.

Whatever enhancements do come Zupnick sees them as affirmation of a successful project. "That the business is contiouing to invest in technologic a validation of our work." O 44009

says Gabriele.



A JAVA-BASED SYSTEM ENABLES OF REAL ESTATE TO UNDERWRITE 25% MORE TRANSACTIONS PER YEAR.

BY THOMAS HOFFMAN



Middleware is Everywhere.

Can you see it?



otus.

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- 1. Shares credit rating. Now.
- Responds to mortgage broker. Now.
 Confers with local branches. Now.
- Approves loan with supervisor. Now.
 Does it all on one platform, Now.

MIDDLEWARE IS IBM SOFTWARE. Software late IBM Lotus* Workplace. An innovative platform based on open standards that combines multiple colaborative applications in a single. dynamic work environment, its one workplace unend to individual roles for part immo colaboration. Lotus Notes. Charles value. Platrolle too, it loverages IBM Lotus Notes. (Evulaness on demand? it | Ben. event (Installation).

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SIM Focuses On Advocacy

national conference in New York, we had 600 people attend. It really depends on what it's all about. If you have good speakers and really excellent topics, they will come because they can learn. There might be a chap ter meeting that isn't well attended. and it probably was because the interest level wasn't there

What are your priorities for this year? I have three areas of focus. One is increasing awareness of what we're about and the advocacy areas. The second is helping the chapters in terms of supporting them, new-chapter development and helping the existing chapters learn from each other as well as getting sup-

port from the executive comm The third is the evolution of SIM the growth of CIOs, collaboration partners and helping all of us to be better. We're talking to other arouns that are trying to do similar things for their industry, like FEI (Financial Executives, International), about some collaboration. We've already done webcasts topether, and we're talking about joining on advocacy and other things

who are members only while they're in that program? We invite CIOs as potential members to attend regional conferences, so as they learn about the advantages of being a member and what that brings to their careers and companies.

their interest is piqued. That's where we get a lot of additional membership. What are three significant things a CIO at a targe company can get out of being a me ber of SM? The No. I is networking with other CIOs and finding out their

successes, challenges, who they're working with, finding out those who are doing the same type of projects. And there are learning opportunities

through the special education programs we have. We just started the Strategic Business Leadership Program because we're finding that the No. I area of interest is the alignment between technology and the business. tial challenges from a business perwant to talk about how their business. will change and grow and prosper as a result of changing the way they do

CEOs have told us that they want their CIOs to talk to them in business terms They want to know the ROI and potenspective. They don't particularly want to talk about technology; instead, they business through technology. Society for Information Management



The last thing is about giving back and making the IT profession better. being more proactive in advocating things [in the public policy field] than will help the industry.

What legislation might SIM be involved in this year? There's a lot of legislation coming down, like Sarbanes-Oxley, privacy and HIPAA regulations.

But can SIM help? We research the legislation that's coming down and look at the potential problems with it. It sounds good on paper, but when you so to implement it the way it's written, it mucht be pretty onerous. Where if it's written slightly differently, you'd get the same effect, but you wouldn't have a great deal of money and time being spent by an organization trying to implement it

On the other hand, if there looks like there's legislation coming in that we don't think is in the best interest of the technology community, we'll try to see what we can do about changing that legislation or defeating it. An example of that would be the UCITA last year. And we are absolutely looking at Sarbanes-Oxley.

How do you investigate looming legislation? We have a vice president for advocacy and communities of interest who is on our board. We poll the membership and see who is interested in that particular legislation. We form a group, and we use the SIM Web site to make it available to the membership at large That group researches it and comes up with recommendations for SIM. We send that out to the chapters for

fredback. In some cases, we'll align with other organizations that are doing similar research. We aligned with AFFECT [Americans for Fair Electronic Commerce Transactions | for UCITA, With Sarbanes-Oxley, we may be aligning with FEL but that's not definite yet.

Do you think CIOs have lost credibility with their CEOs and CFOs? I don't think they've lost credibility; I think the credibility is spotty. At our national conference. Dick Nolan, who is a Harvard professor, said that boards are beginning to have a fourth major committee, [called] technology oversight. FedEx has it; a num ber of banks have them. I think what you're going to be seeing over the next year is more demand on the CIO's relationship with his peers, more demand by the board for the CIO to be visible and explaining what's poing on from a technology perspective. O 43995



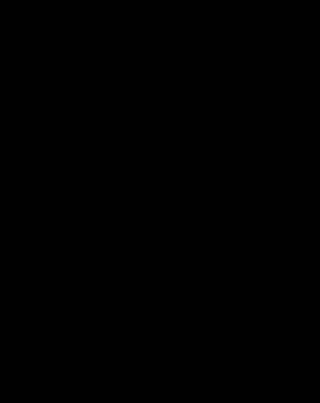
Nancy Markle this month starts her one-year term as president of the Society for Information Management (SIM), o Chicago-based professional association that provides resources and programs to belo I'l leaders develop their

agement skills and enhance their business knowledge. She has worked as o consultant and was formerly CIO as Arthur Andersen LLP: Morkle spoke with Computerworld's Iron Consilvio about what she hopes to accomplish in the coming year and what CIOs can gain from being members of SIM.

growing by about 5% to 10% a year We've got about 70% CIOs/DIOs [direct reports to CIOs and senior IT leaders, and 30% are thought leaders. academicians, that type of thing.

What are thought leaders? We look at people who are in consulting or other areas, such as vendors and vendor partners. We select those who we think are going to contribute to the IT industry.

How has the group's demographics changed? (About six or seven) years ago, we set as a goal to make it about 70% on the CIO level and to move out of a vendortype of relationship into a more partner/thought-leader type of relation ship. We're there and intend to keep it that way.



SIM Focuses On Advocacy

New president of CIO group seeks alliances to lobby on legislation.



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Has SIM membership increased? It's been growing by about 5% to 10% a year. We've got about 70% CIOs/DIOs [direct reports to CIOs] and senior IT leaders, and 30% are thought leaders, academicians, that type of thing.

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How's mosting attendance? [Art] our Just mational conference in New York, we had 600 people attend. It really depends on what it's all about. If you have good speakers and really excellent topics, they will come because they can learn. There might be a chapter meeting that int's well attended, and it probably was because the interest level wasn't there.

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We're talking to other groups that
tryings to do similar things for their instury, like Fell (Financial Execution), about some collaborations. We've already done webcasttougether, and we're talking about joining
to advocacy and other thines.

How are you bringing in new blood, other than the Regional Learning Forum students, who are members only white lawly he is that program? We invite CIOs as potential members to extend regional conferences, so as they learn about the advanlages of being a member and what that brings to their careers and companies, their interest is piqued. That's where we get a lot of additional membership.

What are three significant things a CIO at a large corecary can get out of being a member of SMP? The No. It is networking; with other CIOs and finding out their successes, challenges, who they're working with, finding out those who are doing the same type of projects. And there are learning opportunities

through the special education pro grams we have. We just started the Strategic Business Leadership Program because we're finding that the No. 1 area of interest is the alignment between technology and the business. CEOs have told us that they want their CIOs to talk to them in business terms. They want to know the ROI and potential challenges from a business perspective. They don't particularly want to talk about technology; instead, they want to talk about how their business. will change and grow and prosper as a result of changing the way they do business through technology.



The last thing is about giving back and making the IT profession better, being more proactive in advocating things (in the public policy field) that will help the industry.

What legislation might SIM be involved in this year? There's a lot of legislation coming down, like Sarbanes-Oxley, privacy and HIPAA regulations.

But can SIM halp? We research the Ingislation that's coming down and look at the potential problems with it. It sounds good on paper, but when you not to implement it the way it's written, it might be pretty oncrous. Where it's it's written slightly differently, you'd get the same effect, but you wouldn't have a preed deed of money and time being speed by an organization trying to implement it.

On the other hand, if there looks like there's legislation coming in that we don't think is in the best interest of the technology community, we'll try to see what we can do about changing that legislation or defeating it. An example of that would be the UCTI hast year. And we are absolutely looking at Sarbanes-Ocky.

Now do you investigate becoming injustative. We have a vice president for advanced and communities of interest who is on our board. We poul the membership and see who is interested in that particular legislation. We form a group, and we use the SSM Web site to make it available to the membership at large That group researches it and comes up with recommendations for SSM. We seed that out to the chappers for

In some cases, we'll align with other organizations that are doing similar research. We aligned with AFFECT [Americans for Fair Electronic Commerce Transactions] for UCITA. With Sarbanes-Oxley, we may be aligning with FEL but that's not definite vet.

Be you think CDA have lest credibility with their CDA and CDA of the think they called lost CDA and CDA of the think they called lost of lost credibility; I take the credibility is sportly. At our anchous conference, pick-Nolan, who is a Harvard professor, said that bounds are beginning to bave a fourth major committee, Called I technology oversight. Foreiff a but is a number of bands have them. I think what you've going to be resign over the next power pick to be resigned to the contionally with his peren, suc CDA relationally with his peren, suc CDA relationally with his peren, suc CDA retionally related to the contended properties. Middleware is Everywhere.

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Midwest Bank Hires Security Exec Kurt A. Troyer has joined Midwest

Banc Holdings Inc. as vice presi dent and information services security efficer. He will lead securty efforts for e-mail, data processing and related IT systems. ross Midwest Banc and its four subsidiaries. He also will be responsible for setting policies and rity standards as well as the auditing of operations at the Melrose Park, III.-based bank holding any. Troyer most recently was vice president of IT at Cove Bank NA in Des Plaines, III.

Automotive Lender Promotes CIO

Onyx Acceptance Corp., an auto der in Foothill Ranch, Calif., has promoted its CIO. Todd Pierson, to executive vice president and chief operating officer. Since 1999. Pierzon has been responsi ble for all IT systems, applications and communications. In his new role as COO, he will have the servicing operations. Plorson started his career 16 years ago a ms engineer at Hewle Packard Co. In 1991, he joined Coridian Tax Service.

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The Top Five Issues for CIOs

LTHOUGH many of us are looking forward to this new year with an eye toward the improving economy, it's shaping up to be a challenging one for IT managers Here are the most important IT manage-

ment issues that CIOs will confront in 2004; 1. Sarbanes-Order, White the Sarbanes-Oxley Act is mainly about accounting reform, it will have big implications for IT organiza-

tions in the coming year In the first phase of Sarbanes Oxley projects, already well under way in most companies. IT has been asked to work clusely with finance and outside auditurs to catalog existing financial repurting systems (If the IT group isn't involved at this stage, that's a red flag.)

To date, finance departments have taken the lead on Sarbanes-Oxley compliance, and IT departments have been participating from the sidelines. However, you should expect the IT organization's involvement to grow as this megaproject moves to the next level. Better yet, get involved in Sarbanes-Oxley compliance efforts in your organization now, so you won't be blindsided by the requirements for the budget and labor resources you'll have to apply to this initiative. What's more, your participation at the early stages will greatly improve the chances that your company will ultimately succeed in its efforts to comply

2. IT sourcing. How and where will you get your IT organization's work done? That's a question many IT leaders will grapple with in the coming

with the legislation.

tive approach

year. Some IT managers will be woord by the offshure outsourcing hype without fully understanding the risks. Others will fail to take advantage of alternative sourcing models in urder to maintain the status quo. In some companies, the chief financial of ficer will drive the push to outsource IT, believing it to he the most cost-effec-

In 2004, many IT leaders will have to evaluate their current methods of staffing, as this issue is now visible at

the highest levels of the organization. Therefore, it behooves IT managers to proactively consider their sourcing options, keeping in mind that those uptions will continue to evolve throughout the year.

A key part of this exercise is deter mining whether your current model allows the IT organization (and the company as a whole) to be competitive. Answering this question will prove 466. ficult for the many CIOs who lack the internal statistics to determine the IT organization's core competencies. For many IT leaders, the best approach will be to step back and determine what the IT group is really good at, be-

fore diving into a new sourcing model. 3. Preject prioritization. I won't belabor this one, because my previous column dealt with this topic [QuickLink

42986]. Suffice it to say that there's a backing of work for IT organizations. but only a little more money in 2004.

Sound project prioritization and governance is needed to avoid a train wreck. 4. Security. If you couldn't tell from

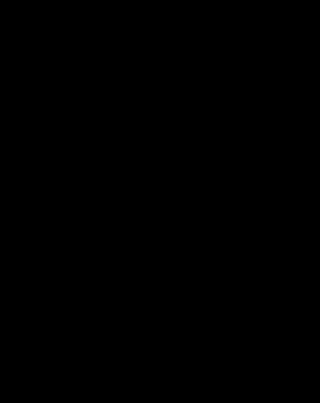
the persistent virus uurbreaks in 2003, we aren't done with this problem yet. Despite their best efforts, many companies were temporarily crippled by viruses last year. These high-profile outages are bad for business and bad for IT organizations. Expect 2004 to bring growing interest in behaviorbased blocking technologies (that scan PCs for security policy violations when the PCs connect to the network) and intrusion-prevention technologies. During 2004, companies will also continue to deal with business continuity planning. Many enterprises will struggle with the basics of disaster recovery, while more advanced users will move on to business process resiliency and recovery, as well as improving incident response and crisis

5. Continued focus on cost. While IT budgets are stabilizing, there will continue to be a focus on cost this year. Cost reduction is now a core component of many IT organizations' ongoing improvement programs. The challenge here is to continuously drive out unnecessary costs without hurting the organization in the long run.

Expect a greater level of accountability throughout the enterprise regarding cost, too. Promised cost sayines are more likely to be tracked, and managers will increasingly be held accountable and rewarded based in part on their ability to deliver the expected

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Midwest Bank Hires Security Exec Rurt A Troper has joined Midwest Bank Holdings Inc. as vice presitest and information of the

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Continued from page 1

Retail RFID

demonstrated for loss knowledge about how the technology works. But as the new year begins, the executives are expressing great interest new that Wal-Mart Stores Inc. has directed its top 100 suppliers to put RFID tags on pallets and cases they ship to the retailer's three Texas distribution centers by next January.

"I'm sure Wal-Mart will help the industry by basically driving the requirement and driving the price points to make it more affordable," said Alan Lacy, CEO of Sears, Roebuck and Co. He said Sears will adopt RFID "as it makes economic sense," since it expects to see benefits in the areas of inventory tracking and theft protection.

Creating Momentum "For every new technology

there tends to be somebody who creates the momentum, whether it be bar codes or EDI," said Phillip Maxwell, CIO at The Neiman Marcus Group Inc. in Dallas. "I think that's what happened here."

Maxwell said the high value and uniqueness of his company's products will make them good candidates for RFID tags. But he expects it to be at least three years before Neiman Marcus uses RFID, because the company will require item-level tags. The first phase of RFID will be at the pallet and case levels, he said.

But several retailers said they're anxious to get to item level tagging. Brian Devine, CEO of Petco Animal Supplies Inc. in San Diego, said he can envision the day when a customer will be able to simply push a shopping cart through an RFID-enabled arch and swipe a credit card to pay for his purchases, with no individual scanning necessary. He said another sech could disengage the tags for privacy-conscious customers.

But while Devine can force see pallet-level tassing within the next three years, he expects that it will take much lunger for item-level tassing because of the costs, not only of the tags but also of the in frastructure that goes with it. Some retail analysts predicted that it could take more than a decade for item-level taseing to gain wide usage among mass retailers. Christine Overby an analyst of Eugenetics Do search Inc. in Cambridge, Mass., estimated that it will

take five to seven years for the rollout of RFID in the supply chain and two decades for item-level tagging on the consumer end because of privary implications and "sheer costs." Early adopters are also cautious in their predictions for item-level tagging. Wal-Mart isn't even doing it yet. Metro Group, a German retailer, is piloting item-level tagging, but

CEO Hans-Joachim Körber

said it will take 10 to 15 years to gain universal acceptance [QuickLink 44]]4]. Colin Cobsin, IT director at U.K.-based retailer Tesco PLC. said his company's pilot with Gillette razor blades showed that the technology works, but the cost of the tags and readers was too high to bring a re-

turn. Tesco is currently nesto tisting with its reader and an plication provider to finalize a business case for tagging DVDs but Cobain is continue

Happy to Wait "I don't want to be the muy

who's actually going first and making it a real cheap case to anybody who follows," he said That attitude is shared by many other retailers, which are happy to benefit from the lessons learned by early

adopters such as Wal-Mare "I don't ever want to be a leader on things like that because there's no advantage but you can be a quick conier." said Allen Questrom, CEO of

J.C. Penney Co. in Plano. Texas. "Why pay a lot of moncy when things are going to change, and you've got to be able to adapt to the changes?" Questrom said be was the "last person" to move to Internet-based retailing because he couldn't figure out how to make money on it. He said his site now makes money

NFWS

Bruce Nelson, CEO of Office Depot Inc. in Delray Beach, Fla., predicted that adoption will vary by industry. and he's content to "wait and see how it unfolds." Nelson said he has business, IT and

logistics staffers studying RFID, and he expects that the company will try it within two to five years because of the "enormous potential payoff." But Nelson has concerns.

He cited the risk of adopting technology that has yet to be standardized as well as the expense of the tags, readers and systems integration. He added that it won't make economic sense to tag small-ticket items like pencils, for instance and he fears that if some products carry tags and others don't, his company could need two sys-

Last year, the cost of the RFID tags - which currently ranges from about 25 to 50 cents each - appeared to be the major concern among retailers and suppliers. Now their concerns have become

Sears CIO Gary Kelly said the cost of the readers and middleware that will be need ed to take full advantage of RFID, not merely the cost of the tags, is driving the economics. "You really have to have pervasive read capability wherever you apply this," he

said. @ 44258

tems to handle the data. Oracle to Add RFID Support to Its Apps as a window for all end

Will also announce new pricing, outsourcing options at AppsWorld

T IT'S ANNUAL COMference for users of its business applications this week, Oracle Corp. will unweil new software pricing and outsourcing options as well as plans to embed radio frequency identification (RFID) technology in its products.

Oracle said in a written statement that it plans to discuss its RFID strategy at the AppsWorld event, which is due to begin tomorrow in San Diego. The company also will make other announcements related to its E-Business Suite IIi line of applications, but it declined to provide any details. Nor would it say when

the RFID technology is scheduled to become available as part of Ill. Otacle would be the second major applications vendor to embrace RFID this month Two weeks ago, ERP market leader SAP AG said it had

ment capabilities into some of its applications, including its SAP Event Management sup ply chain module [OnickLink The RFID enhancements being promised by Oracle are of interest to Gary Concannon, manager of the business

technologies department at Sandia National Laboratories in Albuquerque and a member of the board of directors at the independent Oracle Applications Users Group

Tracking Lab Equipment Sandia runs Version II.5.8 of Oracle's financial, manufacturing and procurement applications. Concannon said b

wants to use integrated RFID technology to track the billions of dollars' worth of texting equipment installed in the lab via a wireless perwork He's also interested in learning more about Oracle's business intelligence tools as AppsWorld, as well as the pos-

lyst at Enterprise Applications Consulting in Daly City, Calif. said SAP. Oracle and other ERP yendors accelerated their push to support RFID after Wal-Mart Stores Inc. mandae ed last June that its top 100 suppliers adopt the technology in their supply chain operations by January 2005 [Quick-Link 391811 Despite the planned RFID

users to access the Ili suite.

Joshua Greenbaum, an ana-

announcement and the other new developments, Oracle's focus at AppsWorld will likely be on more routine issues. such as upgrade cycles, rather than major technology rollouts. Greenbaum said.

He added that Oracle needs to do more marketing of its applications, as opposed to its database and infrastructure software business. The company has also been focusing too much attention and enemy PeopleSoft Inc. and not enough on developing its own internal strengths and struc-

ture, according to Greenburgs

bundled RFID data managesibility of using its software menting execute a single continued mayor for a service Mercelons, etc. 2007s. Zond Penni A



stood case with a contract lawsuit, they would.

have much luck with a stander-of-title suit

not affected by any of Novell's public state

cither. It won't pry loose the Unix copyrights

from Novell, since that's a contract issue that's

ments. And a slander-of-title lawsuit is likely to

be tossed out by a judge, whose first question

will be, "Why didn't you file a contract suit?"

Ah. but until then, it sounds impressive.

doesn't it? Almost as impressive as SCO's re-

stitutional, or as the letter SCO sent to mem-

to the U.S. economy and national security. It

in press releases and news stories.

weirdness and confusion?

against SCO last August?

cent claim that open-source software is uncon-

bers of Congress insisting that Linux is a threat

may all be meaningless, but it looks pretty good

So why would SCO want to be sowing all that

Could it be for the same reason that SCO has

had such trouble coming up with convincing examples of copyright infringement? And credi-

ble evidence of IBM contract violations? And a

viable defense against the lawsuit Red Hat filed

After all the success SCO's management has

had using legal threats to pump up

per share to more than \$20 late last

year, could it be that SCO's execu-

tives - or at least its lawyers -

figured out months are that SCO

the stock price from less than \$1

It turns out that SCO's lawyers aren't likely to

Appurently, they can't

FRANK HAYES • FRANKLY SPEAKING

Weirder & Weirder

OU PROBABLY THOUGHT things couldn't get any weirder with The SCO Group and Linux, didn't you? Of course they could. Last week, the company that claims all Linux users owe it royalties sued Novell for "slander of title." Now that's weird. Impressive, certainly -"slander" gives it a sort of Hollywood-starlet-vs.-supermarkettabloid sexiness. But chances are, unless you're a lawyer, you don't

have the slightest idea what it means. Now, why would SCO want to confuse you that way?

Here's the background: Last summer, SCO claimed that it owns all the copyrights associated with Unix and that Novell sold it those rights in a 1995 contract. That's important to SCO's legal claims, because SCO needs to own the Unix copyrights in order to sue Linux users for infringing them. No Unix copyrights, no Linux copyright-infringement suits

But Novell said SCO was wrong - first privately in letters to SCO, and later publicly. Novell said that it didn't sign away its Unix copyrights in that 1995 contract and that is still owns all the copyrights to Unix

Sounds like a contract dispute, right? SCO elaims the 1995 contract says one thing: Novell claims it says something different. But instead of filing a contract lawsuit, 5CO

has sued Novell for "slander of title." What is that? Slander of title is usually invoked when someone owns real estate and someone else questions that ownership, making it difficult or impossible for the owner to sell

Applying that idea to Unix copyrights, SCO says Novell has publicly claimed that SCO doesn't own those copyrights - thus discouraging Linux users from paying royalties to SCO.

Yes, that's a weird way to approach what's really a contract dispute over software copyrights. And that's telling, because there's only one reason why lawyers choose an oddhall way of pursuing a suit. They do that when it looks like the straightfor ward approach won't work.

Judges like straightforward approaches. Juries do, too. And it's a udge and jury that will eventually have to decide what that 1995 contract said and who should own the Unix copyrights.



hasn't got a case against Linux? Could it be that they keep piling on the lawsuits and the rhetoric for fear that if they stop now, SCO's stock price will collapse and they'll be buried by shareholder lawsuits and an SEC investigation?

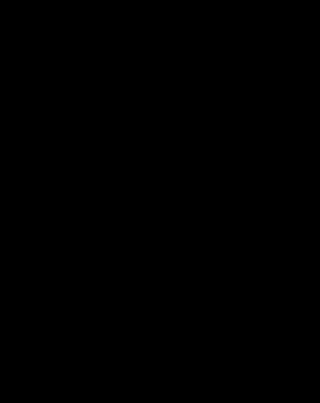
Naaah - that would just be too weird. @ 44217

Seemed Like a Good Idea . . .

This executive's laptop always fails during takeoff on the company's private jet. After the laptop checks out OK on the ground, IT pilot fish gets a directive. Ride up and down in the piene as many times as necessi troubleshoot it. "After several takeoffs and lander was determined that the leptop had a loose wire that moved with the force of takeoff," sighs fish. "It cost more for testing than a new laptop would have po

Nice Try

If SCO's lawyers could make a



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Weirder & Weirder OU PROBABLY THOUGHT things couldn't get any

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If SCO's lawyers could make a

good case with a contract lawsuit, they would. Apparently, they can't. It turns out that SCO's lawyers areo't likely to have much luck with a slander-of-title suit

either. It woo't pry loose the Unix copyrights from Novell, since that's a contract issue that's not affected by any of Novell's public statemeots. And a slander-of-title lawsuit is likely to be tossed out by a judge, whose first question will be, "Why dido't you file a cootract suit?" Ah, but until then, it sounds impressive

cent claim that open-source software is unconstitutional, or as the letter SCO sent to members of Congress insisting that Linux is a threat to the U.S. economy and national security. It may all be meaningless, but it looks pretty good in press releases and news stories

Could it be for the same reason that SCO has had such trouble coming up with convincing examples of copyright infringement? And credible evidence of IBM contract violations? And a

> had using legal threats to pump up the stock price from less than \$1 per share to more than \$20 late lost year, could it be that SCO's executives - or at least its lawvers figured out months ago that SCO hasn't got a case against Linux?

Could it be that they keep piling oo the lawsuits and the rhetoric for fear that if they stop now, SCO's stock price will collapse and they'll be buried by shareholder lawsuits and an SEC investigation?

Naash - that would just be too weird. @ 44217



doesn't it? Almost as impressive as SCO's re-

So why would SCO want to be sowing all that weirdoess and confusion?

viable defense against the lawsuit Red Hat filed against SCO last August? After all the success SCO's management has





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